

**ABUNDANCE, AGE, SEX, AND SIZE STATISTICS FOR SOCKEYE, CHUM
AND PINK SALMON IN LOWER COOK INLET, 2000**



By

Edward O. Otis,
and
Mark S. Dickson

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AUTHORS

Edward O. Otis is the Research Biologist for Lower Cook Inlet salmon and herring for the Alaska Department of Fish and Game, Division of Commercial Fisheries, 3298 Douglas Place, Homer, AK 99603-8027.

Mark S. Dickson is a Fisheries Technician IV for Region II for the Alaska Department of Fish and Game, Division of Commercial Fisheries, 3298 Douglas Place, Homer, AK 99603.

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ABSTRACT

Aerial and foot surveys were used to estimate the 2000 sockeye *Oncorhynchus nerka*, chum *O. keta*, and pink *O. gorbusca* salmon escapements in the Lower Cook Inlet management area. Age, length and weight samples were obtained from four sockeye and one chum salmon stock. A total of 240,932 sockeye, 73,254 chum and 1,387,307 pink salmon were harvested in this management area. Another 69,535 sockeye, 296,431 chum, and 1,223,545 pink salmon were estimated in the spawning escapement. The dominant ages of sockeye salmon throughout Lower Cook Inlet were 1.2 and 1.3. The proportion of sockeye salmon males ranged from a low of 36.0% in the China Poot Bay sample to a high of 50.0% in the Kirschner Lake commercial catch sample. Sockeye salmon ranged in mean size from 520 mm in the China Poot sample to 563 mm in the commercial catch at East Nuka Bay (Delight Lake) and from 1.88 kg to 3.00 kg from the commercial catches at China Poot and East Nuka Bay, respectively.

KEY WORDS: Age, chum salmon, escapement, length, Lower Cook Inlet, pink salmon, *Oncorhynchus*, sex, sockeye salmon, weight

INTRODUCTION

The Lower Cook Inlet (LCI) Management Area for commercial salmon fishing is composed of all waters west of Cape Fairfield in the Gulf of Alaska, north of Cape Douglas in Shelikof Straits, and south of Anchor Point in Cook Inlet. The area is divided into five management districts: Kamishak Bay, Barren Islands, Southern, Outer, and Eastern (Figure 1); fishing does not occur in the Barren Islands District. Purse seines and set gillnets are the only legal gear types for the common property salmon fisheries, however, private non-profit hatchery operations also use weirs for cost-recovery harvests. Entry into the commercial fishery was limited in 1972.

In 1961, the Alaska Department of Fish and Game (ADF&G) began documenting LCI commercial catches of the five Pacific salmon species that occur in Alaska. Sockeye *Oncorhynchus nerka* and chum salmon *O. keta* catch sampling for age, weight, length (AWL) and sex began in 1970. AWL data between 1970 and 1986, and between 1988 and 1997, has been summarized by Schroeder (1984, 1985, 1986), Morrison (1987), Yuen et al. (1989, 1990, 1991, 1992), Yuen and Bucher (1994a, 1994b, 1995) Otis, Bechtol and Bucher (1998), Otis and Dickson (1999a, 1999b and 1999c) and Otis and Dickson (2002). There was no catch-sampling program in 1987. Aerial and ground escapement surveys of pink salmon *O. gorbusca* began in 1960, sockeye salmon *O. nerka* in 1969, and chum salmon in 1974. Annual escapement data are summarized in annual management reports for the Lower Cook Inlet Area (eg., Hammarstrom and Dickson 2001).

Historically, fishing for a single species within a bay or drainage has lasted three to six weeks. Sockeye salmon fisheries begin as early as June while pink and chum salmon fisheries begin in July. Both fisheries end in August. Commercial fishing for chinook *O. tshawytscha* has begun as early as June and fishing for coho *O. kisutch* has extended into September. Current management strategy is structured around established fishing districts and sub-districts to facilitate management of discrete stocks. Commercial harvests are managed to meet predetermined escapement goals and to obtain adequate escapement for all run segments of a stock.

The purpose of the Lower Cook Inlet salmon catch-sampling program is to collect sockeye and chum salmon AWL data from purse seine fisheries that target discrete stocks. These single-stock fisheries normally account for over 90% of the total sockeye and chum catch from Lower Cook Inlet. The purse seine fisheries in the Halibut Cove, Tutka Bay and Douglas River sub-districts, and set gillnet fisheries in Lower Cook Inlet were not usually sampled because they did not target specific local stocks. Chinook salmon samples also were not collected because their total harvest is typically <1% of the total salmon catch. The coho and pink salmon catches normally are not sampled because they exhibit little inter-annual age composition variation.

This report summarizes the 2000 estimates of age and size composition of samples obtained from three discrete sockeye salmon fisheries and one chum salmon fishery. Monitoring changes in age composition allows fishery managers to prepare preseason forecasts of abundance and

evaluate spawning escapement goals. This report also summarizes methods used to estimate total escapement from aerial and ground surveys.

METHODS

The Lower Cook Inlet salmon harvest is managed as 16 independent purse seine fisheries, most of which target discrete stocks, each with their own escapement goal. Individual stocks occurred within distinct geographical sampling strata (Figure 2).

Most catch samples were obtained dockside when tenders were delivering catches from a single fishery. If tenders were expected to gather fish from several fisheries before returning to port, then samples were obtained aboard the tender before salmon from the targeted fishery were placed in the hold. The catch sampling crew interviewed the fishers delivering salmon to determine the origin of the catch before taking samples. If none of the above were possible then samples were obtained from a tender hold provided the skipper was interviewed to confirm that no salmon from an earlier sampling period were present.

Chum salmon returns to LCI, particularly the Kamishak Bay District increased considerably in 2000. As a result, commercial fishing for chum salmon was allowed in the Douglas and Kamishak River subdistricts as well as the Ursus, Iniskin and Cottonwood subdistricts. Commercial chum catches for the Douglas and Kamishak River subdistricts were estimated at over 34,000 and 30,000 fish respectively, while an incidental catch of nearly 2,000 chum salmon was reported for the Bruin Bay subdistrict. An AWL sample was taken from the mixed-stock chum fishery at Silver Beach (Douglas River subdistrict) to compare the age composition of harvested fish against archived age composition data from the Kamishak, Douglas, and McNeil rivers. A chum salmon escapement sample was also taken from Port Dick Creek in the Outer District; unfortunately, a cabin fire destroyed the collected weight and length data. Sockeye salmon age composition estimates were based on samples taken from three commercial fisheries—China Poot Bay, East Nuka Bay (Delight Lake) and Kirschner Lakes, and one escapement sample at Bear Lake. No escapement samples were taken from Delight Lake because that weir project was relocated to Port Dick Creek for 2000.

Salmon were measured from mid-eye to fork of tail (MEFL; ± 1 mm) using a *Limnoterra*¹ electronic fish measuring board (FMBIV). An *Ohaus*¹ (Model CT6000-S) electronic balance was used to weigh salmon to the nearest gram. Sex was generally determined from external secondary sexual characteristics (*e.g.* kipe, humped back, etc.). If necessary, a small incision near the vent was made to inspect the gonads and confirm the sex.

Scales were collected from commercial catch and escapement sampled fish to determine age. When possible, scales were collected from the *preferred area* of each salmon: an area 2-3 rows above the lateral line, posterior to the dorsal fin and anterior to the anal fin. Scales were cleaned and mounted ridged side up on a gummed card and then heat-pressed onto acetate cards for

¹ Vendor and product names are provided to document methods and do not constitute endorsement by ADF&G

reading and archival. Images of scale impressions were magnified 35x and projected on a microfiche reader so the number of annuli per scale could be counted to determine age.

We used the European age designation system (Koo 1962). The first digit in this system refers to the number of freshwater annuli, the second digit refers to the number of marine annuli, and the total age is the sum of the two digits plus one. For example an age-1.2 salmon is a 4-year old salmon that spent 2 years in fresh water (first winter spent in the gravel as an alevin) and 2 years at sea.

Age composition sample sizes for scale collection were set for each sampling stratum to estimate age proportions p_i from a population of k age groups simultaneously within a specified distance d of their true population age proportion π_i 90% of the time ($1-\alpha$). That is,

$$Pr\left(\bigcap_{i=1}^k |p_i - \pi_i| \leq d\right) \geq 1 - \alpha, \quad 1$$

where d and α were respectively chosen to be 0.05 and 0.10 for all scale samples; $\alpha_i = 2(1 - \Phi(z_i))$, $\sum \alpha_i < \alpha$, $\Phi(z_i)$ = area under the standard normal distribution; and $z_i = d \sqrt{n_i / (p_i(1-p_i))}$. Thompson (1987) calculated a maximum sample size of 403 for a worse-case scenario when three age groups were present in equal numbers, where $d = 0.05$ and $\alpha = 0.01$. Any deviation in the number of age groups or unequal contributions by age group would require a smaller sample size.

Sample sizes for mean weights ranged between 5 and 50 depending on σ . Most sample sizes were around 20 for a 200-salmon sample, or 1 in 10 salmon of each sex.

Estimates of standard errors by age group were derived according to procedures for stratified random sampling described by Snedecor and Cochran (1967):

$$SE = \sqrt{\sum C_h^2 \frac{s_h^2}{n_h}}, \quad 2$$

where C_h = the salmon catch in the h th stratum, and s_h^2 = the sample variance in the h th stratum. Catch totals were obtained from harvest receipts (commonly referred to as fish tickets) which must be used to document each landing by a licensed fisher.

All pink and chum and most sockeye salmon escapement estimates in Lower Cook Inlet were based on periodic counts made by an observer either flying in a fixed-wing aircraft or walking along selected streams (Tables 1, 2 and 3). Sockeye salmon escapement estimates for English Bay, Delight and Bear Lake were based on counts made at weirs.

Pink and chum salmon generally accumulated in surveyed streams over time, however, many often died before the last survey was completed. Therefore, survey counts were usually adjusted for stream life: the average length of time a spawning pink or chum salmon was alive and available to surveyors. Our method of considering stream life in estimating total pink and chum salmon escapements was similar to that described by Johnson and Barrett (1988). First, daily surveys were converted to fish-days:

$$fish - days = \frac{(x_i + x_{i-1})}{2} (d_i - d_{i-1}), \quad 3$$

where d_i = Julian calendar date of survey i ($1 < d < 365$) and x_i = number of live pink or chum salmon observed in the study stream during survey i . Then, the area under the fish-day curve is found by integration:

$$area = \sum_{i=1}^{n+1} \frac{(x_i + x_{i-1})}{2} (d_i - d_{i-1}), \quad 4$$

where n = total number of surveys, $x_0 = x_{n+1} = 0$. Pink and chum salmon were not expected to enter streams before 1 July (d_0 = Julian date 191) or after 15 September (d_{n+1} = Julian date 258) unless otherwise noted.

Finally, dividing fish-days by stream life, in this case 17.5 d, yielded total escapement in numbers of salmon:

$$escapement = \frac{\sum_{i=1}^{n+1} \frac{(x_i + x_{i-1})}{2} (d_i - d_{i-1})}{17.5}. \quad 5$$

If this estimate was less than the greatest number of salmon observed on any one survey, we used the peak survey count instead of the result from equation (5) as the total escapement estimate. If both aerial and ground surveys were available, we selected the survey we believed to be the most accurate estimate of total escapement. Sockeye salmon tended to accumulate in surveyed lakes and most were often still alive after the last spawning surveys were completed. Accordingly, peak counts were used as an escapement index for this species, unless otherwise noted.

RESULTS

In 2000, Lower Cook Inlet salmon harvests included 240,932 sockeye, 73,254 chum, and 1,387,307 pink salmon; total escapements were estimated to be 69,535 sockeye, 296,431 chum,

and 1,223,545 pink salmon. Included in the cumulative escapement are several broodstock harvests including: 3,665 sockeye for Bear Lake, 179,970 pink for Tutka Hatchery, 38,486 pink for Port Graham Hatchery, and 1,376 sockeye for English Bay lakes (Tables 4, 5, and 6).

Sockeye salmon catch or escapement age, weight, and length (AWL) samples were collected in four commercial fishing districts: Southern, Outer, Eastern and Kamishak. Samples from sockeye salmon fisheries were obtained between 10 June and 19 July; the chum salmon sample was collected on 20 July. AWL samples were collected from the commercial catch or escapement of each sockeye stock in Lower Cook Inlet that was commercially fished in 2000 with the exception of Neptune Bay. One of the three sockeye catch samples met or exceeded the 90% confidence level where $d = 0.05$. The only sockeye escapement sample collected (Bear Lake) also met this criterion, as did the commercial catch sample of chum salmon at Silver Beach. A total of 1,438 sockeye and 543 readable chum scales were collected (Table 7).

Southern District Sockeye Salmon

The only Southern District fisheries assumed to be harvesting discrete sockeye salmon stocks occur in China Poot, Neptune, and English bays. The runs originating from Leisure Lake, which drains into China Poot Bay, and Hazel Lake, which drains into Neptune Bay, supported the 2 largest sockeye fisheries in Lower Cook Inlet in 2000. Both of these runs were enhanced by ongoing lake stocking programs that began in 1976 and 1988 respectively. The 2000 common property commercial fisheries in China Poot and Neptune bays harvested 24,686 and 35,513 sockeye salmon respectively. Cost recovery efforts accounted for additional 13,738 and 4,365 sockeye salmon at China Poot and Neptune Bay respectively. Biological data on sockeye salmon returning to China Poot and Neptune bays have been collected since 1980 and 1993 respectively (Appendix A). The mean sockeye weight in our China Poot catch sample was 1.88 kg ($n = 24$) and the mean length was 520 mm ($n = 171$). The China Poot catch sample consisted of 51.0% age-1.2 sockeye salmon and 64.0% females (Table 8). The Neptune Bay fishery was not sampled in 2000 due to difficulty in obtaining a pure sample. Since a barrier falls prevents upstream spawning migration into Leisure Lake, efforts were made to harvest all returning sockeye salmon in that terminal fishery.

The Halibut Cove sub-district purse seine and set gill net fishery exploits mixed stocks and harvested 24,301 sockeye salmon in 2000. Mixed stocks were also harvested in various set gillnet fisheries. The reported set gillnet harvest of sockeye salmon near Barabara Creek was 4,948; 7,498 sockeyes were harvested in Kasitsna/Tutka bays, and 6,388 in Seldovia Bay. Set gillnet fishing was allowed in the Port Graham Subdistrict in 2000, but was closed early with a catch of only 1,153 fish in order to protect sockeyes returning to English Bay Lakes. The only large spawning escapement of sockeye salmon in the Southern District occurred in the English Bay River drainage where 11,237 sockeye salmon passed through the weir and an additional 1,376 sockeyes were harvested for the brood stock (Paul McCollum, Port Graham Hatchery Manager, personal communication).

Outer District Sockeye Salmon

Wild runs in Nuka Bay supported a commercial harvest of 21,618 sockeye salmon in 2000. Biological data on sockeye salmon returning to Nuka Bay have been collected since 1984 (Appendix B). A sample of 492 fish from the commercial fishery directed at Delight Lake stocks was taken on July 8, and consisted of 9.0% age-1.2 and 84.0 % age-1.3 sockeye salmon with an overall mean length of 563 mm (Table 9). Delight and Desire Lakes had an escapement index of 12,290 and 4,000 sockeyes respectively; 2,090 sockeyes were estimated for the escapement into Delusion Lake (a.k.a. Ecstasy Lake).

Eastern District Sockeye Salmon

The escapement index to Aialik Lake was estimated to be 4,250 fish in 2000. Biological data on sockeye salmon returning to Aialik Lake have been collected since 1983 (Appendix C). Although commercial fishing was allowed in the Aialik subdistrict in 2000, the catch was meager (48 sockeyes) and no AWL samples were collected.

The enhanced runs into Grouse and Bear lakes in Resurrection Bay supported a common property commercial harvest of 19,145 sockeyes and a hatchery cost recovery harvest of 31,219 fish. In addition, there were a combined 13,690 fish that were either donated or discarded bringing the total Resurrection Bay North subdistrict commercial sockeye catch to 64,051 fish. The Cook Inlet Aquaculture Association (CIAA) counted 8,239 sockeye salmon through the weir into Bear Lake (Jeff Hetrick, CIAA, personal communication). A sample collected at the Bear Creek weir by CIAA staff consisted of 74.8 % aged-1.3 sockeye salmon with an overall mean length of 528 mm and weight of 2.75 kg (n=404; Table 11).

Kamishak Bay District Sockeye Salmon

One common property sockeye fishery occurred in Kamishak Bay in 2000, 10,236 fish were harvested at Kirschner Lake with an additional 21,391 sockeyes harvested for cost recovery purposes. A sample of the commercial catch consisted of 50% age-1.2 fish with an overall mean length of 525 mm (n=371) and a mean weight of 2.06 kg (n= 58). A migrational barrier at Kirschner Lake precludes escapement to this enhanced system and all fish are available for harvest.

The Chenik Lake Subdistrict remained closed due to the small run of 4,800 sockeye salmon. The Chenik Lake weir (in operation from 1989-1997) was not installed and the sockeye escapement was estimated by means of aerial survey. Chenik Lake's natural run was supplemented with hatchery-reared sockeye juveniles as early as 1978, but stocking was discontinued in 1996. The run has been extremely weak in recent years due to an IHNV epizootic. Biological data on sockeye salmon returning to Chenik Lake have been collected opportunistically since 1985 (Appendix D).

Escapement indices to other Kamishak District streams included 100 sockeye in Ursus Cove Lagoon Creek, 300 in Bruin River, and 3,260 in Amakdedori Creek.

Lower Cook Inlet Chum Salmon

Chum salmon returns to LCI, particularly the Kamishak Bay District increased considerably in 2000. As a result, commercial fishing for chum salmon was allowed in the Douglas and Kamishak River subdistricts as well as Ursus, Iniskin and Cottonwood subdistricts. Commercial chum catches for the Douglas and Kamishak River subdistricts were estimated at over 34,000 and 30,000 fish respectively, while an incidental catch of nearly 2,000 chum salmon was reported for the Bruin Bay subdistrict. The LCI commercial chum salmon harvest of 73,254 fish (Table 5) was the highest since 1988 and represented 78% of the 20-year average. However, the McNeil River chum escapement (estimated at 18,607 fish) failed to reach even the low end of its escapement goal range of 20,000 to 40,000 for the ninth time since 1990. Samples from the mixed-stock chum fishery at Silver Beach (Douglas River subdistrict) were collected on 20 and 25 July to compare the age composition of harvested fish against archived age composition data from the Kamishak, Douglas, and McNeil rivers. Silver Beach samples consisted of 91.0% age-0.3 fish with an overall length of 652 mm and 4.24 kg (Table 12).

Lower Cook Inlet Pink Salmon

Virtually all pink salmon exhibit a two-year life cycle so catch samples typically are not collected to determine age composition of returning stocks. However, catch and escapement data are compiled to facilitate in-season management of the commercial fishery and to forecast the following years return (e.g., Otis 1997). The 2000 LCI pink salmon catch totaled 1,387,307 fish, slightly more than the 1,140,488 fish harvested in 1999 (Table 6). Over 77 % of the total harvest occurred in the Southern District largely as a result of Tutka Hatchery production (Table 6). Over 97.5% of the Southern District catch went to Tutka Hatchery cost recovery. Brood stock collection at Tutka Hatchery and the common property fishery in Tutka Bay subdistrict harvested an additional 179,970 and 8,580 fish respectively. In the Outer District, pink salmon escapement to Port Dick Creek, one of two major pink producing streams in Port Dick Bay, was estimated at 122,900 fish, the highest since records have been kept. Pink salmon escapement at Island Creek, the second major producer, was estimated at 70,800 fish, nearly 5 times the 30-year average. Over 306,000 pink salmon were harvested in Port Dick Bay, the highest harvest since 1985. Of the 24 pink salmon streams that were monitored for escapement in LCI for 2000, 15 achieved their desired escapement levels compared to only four streams in 1999. Only one stream in the Outer District and three in the Southern District failed to reach desired escapement levels.

DISCUSSION

Sockeye salmon mean lengths and weights within a brood year are expected to increase with increasing ocean age. For example, age-1.1, 1.2, and 1.3 Aialik Lake male sockeye salmon from the 1980 brood year had mean lengths progressing from 355 mm to 515 mm to 569 mm (Appendix C). Whenever this trend was not observed, data were examined for keypunch errors, and scales were re-examined for aging errors. Apparent size trend discrepancies can sometimes result from sampling inadequacies. For instance, the mean weight of age-0.3 female chum salmon from Silver Beach was 3.95 kg, while age-0.4 chums weighed 4.09 kg, a difference of only 0.14 kg despite another full year at sea (Table 12). This apparent discrepancy was probably not due to aging or keypunch errors. It was more likely related to the age-0.4 mean value consisting of just three fish, which was insufficient for a representative sample of this age group.

Occasional anomalies occurred in the freshwater residency period for some stocks. For example, age-1. fish have dominated Aialik Bay returns since catch sampling began there in 1983. However, 52.9% and 65.5% of juvenile sockeye remained in Aialik Lake a second year and smolted as age-2. fish in 1990 and 1991, respectively. East Nuka Bay returns experienced similar occurrences in 1988 and 1994. Inter-annual variation in age compositions is relatively common within sockeye salmon stocks Burgner (1991), however, casual mechanisms are not fully understood. While size may not be the sole determinant for smoltification, Weatherly and Gill (1995), report that growth is an important component influencing the duration of freshwater residence of sockeye salmon. Burgner (1991) lists several factors which may influence the freshwater growth of sockeye salmon, including: abundance and availability of food, temperature conditions, length of growing season, intensity of available light, competition, disease, feeding behavior in relation to predators, and movements to favorable habitats for feeding and survival.

Variation can also occur in the ocean residency period for some salmon. Sockeye salmon typically spend from one to four years at sea, with 2-3 years being most common. Individual stocks can sometimes oscillate between 2-ocean and 3-ocean dominated returns, particularly those that are relatively evenly split between the two. The composition of sockeye salmon returning to Nuka Bay is a good example of this phenomenon. In the past 14 years, 2-ocean fish have dominated the return four times and 3-ocean fish have dominated the return 10 times. In 2000, age 1.3 sockeyes comprised 84% of the return- the single highest age percentage ever recorded for Nuka Bay returns.

While the overall sex ratio of returning adult salmon is typically even, males generally dominate the early portion of a run and females the latter, particularly for chum and pink salmon. Thus, the date samples are collected relative to the timing of the spawning run can influence the observed sex ratio of the sample. This temporal bias probably caused the skewed sex ratio observed in the commercial catch sampled from China Poot Bay on 17 July 2000 (64% females; Table 8). Because temporal biases occur and size-at-age differences exist between male and female sockeye salmon (Burgner 1991), sampling dates are reported and age-weight-length data are stratified by sex in the appendices.

Escapement indices reported herein are primarily based on area-under-the-curve estimates that incorporate a 17.5 day streamlife. This streamlife estimate has been used for Lower Cook Inlet pink salmon for over 30 years (Davis and Valentine 1970). While streamlife is recognized as a dynamic parameter, often varying by sex, segment of the run, and year, recent pink salmon streamlife work conducted in Prince William Sound suggests 17.5 days may be outside the commonly observed range of values (Bue et al. 1998). Until streamlife studies are conducted to confirm these data for Lower Cook Inlet streams, we are reluctant to modify our escapement indices. Nonetheless, readers should be aware that the historical escapement indices presented in this document could change in the future when a more appropriate streamlife estimated is adopted for Lower Cook Inlet pink and chum salmon.

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Table 1. Survey methods and total escapement algorithms used for sockeye salmon streams in Lower Cook Inlet, 2000.

Stream	Survey Method	Total Escapement Algorithm
Southern District		
English Bay	Weir	Sum of daily weir counts
Outer District		
Desire Lake	Aerial	Peak live count
Delight Lake	Aerial	Peak live count
Delusion Lake	Aerial	Peak live count
Eastern District		
Aialik Lake	Aerial	Peak live count
Salmon Creek	Ground	Peak live count
Grouse Creek	Ground	Peak live count
Bear Creek	Weir	Sum of daily weir counts
Kamishak District		
Ursus Lagoon	Aerial	Peak live count
Bruin Lake Creek	Aerial	Peak live count
Bruin Bay	Aerial	Peak live count
Amakdedori Creek	Aerial	Peak live count
Chenik Lake	Aerial	Peak live count
Paint River ¹	Aerial	Peak live count
Mikfik Lake	Aerial	Peak live count
Little Kamishak River	Aerial	Peak live count
Douglas Reef	Aerial	Peak live count

¹ Fish are not able to reach freshwater due to barrier.

Table 2. Survey methods and total escapement algorithms used for chum salmon streams in Lower Cook Inlet, 2000; NS denotes "not surveyed" (page 1 of 2).

Stream	Survey Method	Total Escapement Algorithm	Start/stop dates Area-under-the-curve
Southern District			
Humpy Creek	Ground	17.5 day streamlife	7/1-9/15
Seldovia River	Ground	17.5 day streamlife	7/1-9/20
Port Graham Left	Ground	17.5 day streamlife	7/1-9/20
Port Graham River	Ground	17.5 day streamlife	7/1-9/20
Outer District			
Dogfish Bay	Ground	17.5 day streamlife	6/26-9/30
Port Chatham	Ground	17.5 day streamlife	7/1-9/30
Windy River Left	Ground	17.5 day streamlife	7/1-9/30
Windy River Right	Ground	17.5 day streamlife	7/1-9/30
Rocky River	Aerial	17.5 day streamlife	7/1-9/15
Port Dick:			
Head End Creek	Ground	17.5 day streamlife	7/1-9/20
Slide Creek	Ground	17.5 day streamlife	7/1-9/30
Middle Creek	Aerial	17.5 day streamlife	7/1-9/20
Island Creek	Ground	17.5 day streamlife	7/1-9/30
Petrof River	Aerial	17.5 day streamlife	7/1-9/15
Nuka Island, South Cr.	NS	17.5 day streamlife	7/1-9/15
James Lagoon	Aerial	17.5 day streamlife	7/1-9/15
Eastern District			
Tonsina Creek	Ground	17.5 day streamlife	7/1-9/30
Tonsina Left Creek	Ground	17.5 day streamlife	7/1-9/30
Salmon Creek	NS	Peak carcass count	
Clear Creek	Ground	17.5 day streamlife	7/1-9/15
Sawmill Creek	Ground	17.5 day streamlife	7/1-9/30
Spring Creek	Ground	17.5 day streamlife	7/1-9/30
Kamishak Bay District			
Ininskin River	Aerial	17.5 day streamlife	7/25-9/30
Sugarloaf Creek	Aerial	17.5 day streamlife	7/25-9/30
North Head Creek	Aerial	17.5 day streamlife	7/25-9/30
Cottonwood Creek	Aerial	17.5 day streamlife	7/25-9/30
Browns Peak Creek	Aerial	17.5 day streamlife	7/1-9/15
Ursus Lagoon, Rt. hand	Aerial	17.5 day streamlife	7/15-9/30

Table 2. (page 2 of 2)

Stream	Survey Method	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
Kamishak Bay District			
Ursus Lagoon Creek	Aerial	17.5 day streamlife	7/15-9/30
Sunday Creek	Aerial	17.5 day streamlife	7/1-9/15
Bruin Bay River	Aerial	17.5 day streamlife	7/1-9/15
McNeil River ^a	Aerial	17.5 day streamlife	6/20-9/15
Little Kamishak River	Aerial	17.5 day streamlife	7/1-9/15
Strike Creek	Aerial	17.5 day streamlife	7/1-9/15
Big Kamishak River	Aerial	17.5 day streamlife	7/1-9/15
Douglas Reef	Aerial	17.5 day streamlife	7/1-9/15
Douglas Beach	Aerial	17.5 day streamlife	7/1-9/15

^a McNeil River Chum salmon aerial survey counts are considered to be a conservative index of abundance. In some years, the estimated number of salmon consumed by bears in the McNeil River State Game Sanctuary has exceeded the peak aerial survey count.

Table 3. Survey methods and total escapement algorithms used for pink salmon streams in Lower Cook Inlet, 2000; NS denotes "not surveyed" (page 1 of 2).

Stream	Survey Method	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
Southern District			
Humpy Creek	Ground	17.5 day streamlife	7/15-9/30
China Poot Creek	Ground	17.5 day streamlife	8/1-9/25
Tutka Creek	Ground	17.5 day streamlife	7/1-9/30
Seldovia River	Ground	17.5 day streamlife	7/15-9/20
Barabara Creek	Ground	17.5 day streamlife	8/1-9/30
Port Graham left	NS	17.5 day streamlife	8/1-9/30
Port Graham River	Ground	17.5 day streamlife	8/1-9/30
Outer District			
Dogfish Bay	Aerial	17.5 day streamlife	8/1-9/30
Port Chatham	Ground	17.5 day stream life	7/15-9/30
Chugach Bay	Aerial	17.5 day streamlife	7/15-9/30
Windy River Left	Ground	17.5 day streamlife	7/10-9/30
Windy River Right	Ground	17.5 day stream life	7/10-9/30
Scurvy Creek	Aerial	17.5 day streamlife	7/15-9/30
Rocky River	Aerial	17.5 day streamlife	7/15-9/30
Port Dick:			
Head End Creek	Aerial	17.5 day streamlife	7/1-9/30
Slide Creek	Aerial	17.5 day streamlife	7/15-9/30
Middle Creek	Aerial	17.5 day streamlife	7/15-9/30
Island Creek	Aerial	17.5 day streamlife	7/15-9/30
Nuka Island, South Creek	Ground	17.5 day streamlife	7/15-9/30
Berger Bay	NS	17.5 day streamlife	7/15-9/30
James Lagoon	Aerial	17.5 day streamlife	7/15-9/15
Eastern District			
Humpy Cove	Ground	17.5 day streamlife	7/15-9/30
Tonsina Creek	Ground	17.5 day streamlife	8/1-9/30
Tonsina Left Creek	NS	17.5 day streamlife	8/1-9/30
Salmon Creek	Ground	17.5 day streamlife	8/1-9/30
Sawmill Creek	Ground	17.5 day streamlife	8/1-9/30
Spring Creek	Ground	17.5 day streamlife	8/1-9/30
Thumb Cove	Ground	17.5 day streamlife	8/1-9/30

Table 3 (page 2 of 2)

Stream	Survey	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
Kamishak Bay District			
Sugarloaf Creek	Aerial	17.5 day streamlife	7/15-9/30
North Head Creek	Aerial	17.5 day streamlife	7/15-9/30
Browns Peak Creek	Aerial	17.5 day streamlife	7/15-9/15
Ursus Lagoon Right-hand	Aerial	17.5 day streamlife	7/15-9/30
Ursus Lagoon	Aerial	17.5 day streamlife	7/15-9/30
Sunday Creek	Aerial	17.5 day streamlife	7/15-9/30
Bruin Bay Creek	Aerial	17.5 day streamlife	7/15-9/30
Amakdedori Creek	NS	17.5 day streamlife	7/15-9/30

Table 4. Commercial sockeye salmon catches (including hatchery cost recovery) and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2000 (page 1 of 2).

Subdistrict/System	Catch	Escapement ^a	Total Run
SOUTHERN DISTRICT			
Humpy Creek		30	30
Halibut Cove	24,301		24,301
China Poot Bay			
Common Property Fishery	24,686		
Hatchery Cost Recovery	13,738		
China Poot Creek		256 ^b	
Total Run			38,680
Neptune Bay			
Common Property Fishery	35,513		
Hatchery Cost Recovery	4,365		
"Oxbow" Creek		30	
Total Run			39,908
Tutka/Kasitsna Bays & Tutka Creek	7,498 ^c	80	7,578
Barabara Creek	4,948		4,948
Seldovia Bay	6,388	4	6,392
Port Graham	1,153	1	1,154
English Bay	984		
English Bay Lakes		11,237 ^d	
Hatchery Broodstock		1,376	
Total Run			13,597
SOUTHERN DISTRICT TOTAL	123,574	13,014	136,588
OUTER DISTRICT			
Port Dick/Head End Creek	5	2	7
East Arm Nuka Bay (McCarty Fiord)	21,618		
Delight Lake		12,290	
Desire Lake		4,000	
Delusion Lake		2,090	
Total Run			39,998
OUTER DISTRICT TOTAL	21,623	18,382	40,005
EASTERN DISTRICT			
Aialik Bay & Aialik Lake	48	4,250	4,298
Resurrection Bay North			
Common Property Fishery	19,145		
Hatchery Cost Recovery	31,216		
Hatchery Discards/Donations	13,690		
Bear Lake Escapement		8,239 ^d	
Hatchery Brood Stock		3,665 ^e	
Clear Creek		10	
Total Run			75,965
EASTERN DISTRICT TOTAL	64,099	16,164	80,263

Table 4. (page 2 of 2).

Subdistrict/System	Catch	Escapement ^a	Total Run
KAMISHAK BAY DISTRICT			
Iniskin Bay/North Head Creek		100	100
Cottonwood Creek		10	10
Ursus Cove			
Ursus Cove Lagoon Creek		100	
Brown's Peak Creek		50	
Total Run			150
Kirschner Lake			
Common Property Fishery	10,236		
Hatchery Cost Recovery	21,391		
Total Run			31,627
Bruin Bay	4		
Bruin Lake Creek		40 ^b	
Bruin Bay River		300	
Total Run			344
Chenik Lake			
Amakdedori Creek		3,260	
Chenik Creek/Lake		4,800	
Total Run			8,060
Paint River		30 ^f	30
McNeil Cove			
Mikfik Creek/Lake		10,910	
McNeil River		500	
Total Run			11,410
Kamishak Bay/ Big Kamishak River	3	1,500	1,503
Douglas River/Silver Beach	2		
Douglas Clearwater Tributary		300	
Douglas Reef Main Left		75	
Total Run			377
KAMISHAK BAY DISTRICT TOTAL	31,636	21,975	53,611
TOTAL LOWER COOK INLET	240,932	69,535	310,467

^a Escapement estimates derived from limited aerial surveys. Numbers represent unexpanded aerial live counts.

^b No freshwater escapement, prevented by barrier falls.

^c Commercial catch includes 896 sockeyes harvested incidentally during pink salmon hatchery cost recovery.

^d Weir counts.

^e Brood stock total at Bear Lake includes 3 mortalities.

^f No freshwater escapement, ladder not opened during 2000.

Table 5. Commercial chum salmon catches and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2000 (page 1 of 2).

Subdistrict/System	Catch	Escapement ^a	Total Run
SOUTHERN DISTRICT			
Humpy Creek		695	695
Halibut Cove	91		91
China Poot Bay	33		33
Neptune Bay	49		49
Tutka Bay/Tutka Head End Creek	1,808	219	2,027
Barabara Creek	1,219		1,219
Seldovia Bay & River	2,136	7,120	9,256
Port Graham & River		11,381	11,381
English Bay	4		4
SOUTHERN DISTRICT TOTAL	5,340	19,415	24,755
OUTER DISTRICT			
Dogfish Bay		19,645	19,645
Port Chatham		2,039	2,039
Windy Bay			
Windy Right Creek		378	
Windy Left Creek		2,580	
Total Run			2,958
Rocky Bay & River		4,177	4,177
Port Dick	76		
Port Dick (head end) Creek		3,395	
High Tech Creek		32	
Well Flagged Creek		23	
Slide Creek		2,072	
Middle Creek		12,053	
Island Creek		1,832	
Total Run			19,483
Taylor Bay		134	134
Nuka Island/Petrof River		501	501
East Arm Nuka Bay/James Lagoon	226	2,150	2,376
OUTER DISTRICT TOTAL	302	51,011	51,313
EASTERN DISTRICT			
Aialik Bay	5		5
Resurrection Bay North	1,535		
Clear Creek		286	
Sawmill Creek		494	

Table 5. (page 2 of 2).

Subdistrict/System	Catch	Escapement ^a	Total Run
Resurrection Bay North (cont'd)			
Spring Creek		1,473	
Thumb Cove		1,336	
Tonsina Creek		4,677	
Total Run			9,801
EASTERN DISTRICT TOTAL	1,540	8,266	9,806
KAMISHAK BAY DISTRICT			
Iniskin Bay			
Iniskin River		23,601	
Sugarloaf Creek		840	
North Head Creek		2,010	
Total Run			26,451
Cottonwood Bay & Creek		24,100	24,100
Ursus Cove			
Brown's Peak Creek		3,199	
Ursus Lagoon Right Creek		27,552	
Ursus Cove Lagoon Creek		14,135	
Ursus Head Creek		1,473	
Total Run			46,359
Rocky Cove/Sunday Creek		7,297	7,297
Kirschner Lake	609		609
Bruin Bay & River	1,838	13,621	15,459
McNeil River		18,607	18,607
Kamishak River/Reef	43,695		
Big Kamishak River		45,314	
Little Kamishak River		26,923	
Strike Creek		3,224	
Total Run			119,156
Douglas River/Silver Beach	19,930		
Douglas Beach Creek		5,643	
Douglas Reef Creek		200	
Total Run			25,773
KAMISHAK BAY DISTRICT TOTAL	66,072	217,739	283,811
TOTAL LOWER COOK INLET	73,254	296,431	369,685

^a Escapement estimates are derived from periodic ground or aerial surveys with stream life factors applied.

Table 6. Commercial pink salmon catches (including hatchery cost recovery) and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2000 (page 1 of 3).

Subdistrict/System	Catch	Escapement ^a	Total Run
SOUTHERN DISTRICT			
Humpy Creek		22,436	22,436
Halibut Cove	514		514
China Poot Bay/Creek	701	7,497	8,198
Neptune Bay	3,272		3,272
Tutka/Kasitsna Bays			
Common Property Fishery	8,580		
Hatchery Cost Recovery	1,043,705		
Hatchery Brood Stock		179,970	
Tutka Lagoon Creek		19,048	
Tutka Head End Creek		3,379	
Total Run			1,254,682
Barabara Creek	3,094	5,568	8,662
Seldovia Bay & River	10,199	53,461	63,660
Port Graham			
Hatchery Brood Stock		38,486	
Port Graham River		15,590	
Total Run			54,076
SOUTHERN DISTRICT TOTAL	1,070,065	345,435	1,415,500
OUTER DISTRICT			
Dogfish Bay		11,057	11,057
Port Chatham		16,652	16,652
Chugach Bay		6,261	6,261
Windy Bay			
Windy Right Creek		22,964	
Windy Left Creek		20,073	
Total Run			43,037
Rocky Bay			
Scurvy Creek		1,083	
Rocky River		131,651	
Total Run			132,734
Port Dick	306,267		
Port Dick (head end) Creek		122,911	
High Tech Creek		976	
Well Flagged Creek		463	
Slide Creek		55,637	
Middle Creek		12,263	
Island Creek		70,845	
Total Run			569,362

Table 6. (page 2 of 3)

Subdistrict/System	Catch	Escapement ^a	Total Run
OUTER DISTRICT (cont'd)			
Taylor Bay		38,100	38,100
Nuka Island			
Tonsina Bay		657	
Petrof River		1,543	
South Nuka Island Creek		13,572	
Mike's Bay		872	
Home Cove		5,940	
Total Run			22,584
East Arm Nuka Bay (McCarty Fiord)	288		
Delight Lake		100	
Desire Lake		19,083	
Delusion Lake		1,053	
James Lagoon		3,897	
Total Run			<u>24,421</u>
OUTER DISTRICT TOTAL	<u>306,555</u>	<u>557,653</u>	<u>864,208</u>
EASTERN DISTRICT			
Aialik Bay	4,099		4,099
Resurrection Bay North	374		
Bear/Salmon Creeks		35,640	
Clear Creek		2,012	
Sawmill Creek		261	
Spring Creek		600	
Tonsina Creek		6,587	
Humpy Cove		1,691	
Thumb Cove (Likes Creek)		8,503	
Total Run			<u>55,668</u>
EASTERN DISTRICT TOTAL	<u>4,473</u>	<u>55,294</u>	<u>59,767</u>
KAMISHAK BAY DISTRICT			
Inisksin Bay			
North Head Creek		791	
Sugarloaf Creek		1,194	
Total Run			1,985
Cottonwood Bay/Creek		1,200	1,200
Ursus Cove			
Brown's Peak Creek		9,765	
Ursus Lagoon Righthand Cr.		100	
Ursus Lagoon Creek		1,086	
Ursus Head Creek		960	
Total Run			<u>11,911</u>

Table 6. (page 3 of 3)

Subdistrict/System	Catch	Escapement ^a	Total Run
KAMISHAK BAY DISTRICT (cont'd)			
Rocky Cove/Sunday Creek		39,783	39,783
Kirschner Lake	1,355 ^b		1,355
Bruin Bay	4,097		
Bruin Bay River		176,694	
Bruin Lake Creek		431	
Total Run			181,222
McNeil Cove/McNeil River		3,846	3,846
Kamishak Rivers/Reef	582		
Big Kamishak River		14,900	
Little Kamishak River		13,000	
Strike Creek		464	
Total Run			28,946
Douglas Reef/Silver Beach	180		
Douglas Reef		929	
Douglas Beach		20	
			1,129
KAMISHAK BAY DISTRICT TOTAL	6,214	265,163	271,377
TOTAL LOWER COOK INLET	1,387,307	1,223,545	2,610,852

^a Escapement estimates are derived from periodic ground or aerial surveys with stream life factors applied.

^b Kirschner Lake pinks include 1,314 taken during common property fishing and 41 taken during hatchery sockeye cost recovery harvests.

Table 7. Number of readable scales and corresponding confidence levels for age composition estimates from Lower Cook Inlet sockeye and chum salmon samples, 2000.

Fishery	Dates	Sample	Type	Confidence
		Size		interval (d=0.05) ^a
<u>Sockeye Salmon</u>				
Bear Lake	10 June- 10 July	374	Scale	0.966
China Poot	17 July	171	Scale	0.597
East Nuka	8 July	492	Scale	0.997
Kirschner Lake	19 July	371	Scale	0.896
Total Sockeye Scales		1,408		
<u>Chum Salmon</u>				
Silver Beach	July 20, 25	543	Scale	1.000
	Total Scales	1,951		

^a Simultaneous confidence interval for multiple age classes (Thompson 1987)

Table 8. Age, sex, and size composition of sockeye salmon commercial catch from China Poot Bay, July 17, 2000.

Age Composition by Brood Year							
	1.1	1.2	1.3	2.2	1.4	2.3	Grand Total
Sample Period: 17-Jul-2000		Sample ID:00CHINR1					
Males							
Percent		17.0%	13.5%		4.7%	0.6%	35.7%
Mean Length (cm)		499	559		522	556	525
Std. Error		2	5		8	NA	4
Sample Size		29	23		8	1	61
Mean Weight (kg)		1.64	2.42		1.95		1.88
Std. Error		0.07	0.04		0.06		0.12
Sample Size		5	2		2		9
Females							
Percent	0.6%	35.1%	21.1%	0.6%	7.0%		64.3%
Mean Length (cm)	406	497	552	582	522		517
Std. Error	NA	2	4	NA	7		3
Sample Size	1	60	36	1	12		110
Mean Weight (kg)		1.73	2.04		1.71		1.85
Std. Error		0.05	0.07		0.17		0.06
Sample Size		6	6		3		15
Both Sexes							
Percent	0.6%	52.0%	34.5%	0.6%	11.7%	0.6%	100.0%
Mean Length (cm)	406	497	555	582	522	556	520
Std. Error	NA	1	3	NA	5	NA	3
Sample Size	1	89	59	1	20	1	171
Mean Weight (kg)		1.69	2.14		1.81		1.86
Std. Error		0.04	0.08		0.11		0.06
Sample Size		11	8		5		24

Table 9. Age, sex, and size composition of sockeye salmon commercial catch from Kirschner, July 19, 2000.

	Age Composition by Brood Year					Total
	1.2	1.3	1.4	2.2	2.3	
Sample Period: 19-Jul-2000			Sample ID: 00KIRSRC			
Males						
Percent	24.2%	20.7%		4.8%	0.5%	50.3%
Mean Length (cm)	492	571		517	557	527
Std. Error	1	3		4	9	3
Sample Size	90	77		18	2	187
Mean Weight (kg)	1.75	2.74		1.96	2.20	2.20
Std. Error	0.07	0.12		0.06	NA	0.11
Sample Size	13	12		2	1	28
Females						
Percent	26.3%	18.8%	0.3%	4.3%		49.7%
Mean Length (cm)	494	566	632	509		523
Std. Error	2	4	NA	5		3
Sample Size	98	70	1	16		185
Mean Weight (kg)	1.56	2.48		1.82		1.95
Std. Error	0.04	0.15		0.11		0.10
Sample Size	16	12		2		30
Both Sexes						
Percent	50.5%	39.5%	0.3%	9.1%	0.5%	100.0%
Mean Length (cm)	493	568	632	513	557	525
Std. Error	1	2	NA	3	9	2
Sample Size	188	147	1	34	2	372
Mean Weight (kg)	1.64	2.61		1.89	2.20	2.07
Std. Error	0.04	0.10		0.07	NA	0.08
Sample Size	29	24		4	1	58

Table 10. Age, sex, and size composition of sockeye salmon commercial catch from East Nuka Bay, July 8, 2000.

	Age Composition by Brood Year				Total
	1.2	1.3	2.2	2.3	
Sample Period: 8-Jul-2000		Sample ID: 00NUKAR1			
Males					
Percent	3.9%	39.2%	2.2%	0.8%	46.1%
Mean Length (cm)	501	586	522	585	576
Std. Error	5	2	8	17	2
Sample Size	19	193	11	4	227
Mean Weight (kg)	2.11	3.46	2.35	3.40	3.29
Std. Error	0.06	0.03	0.11	0.30	0.04
Sample Size	19	193	11	4	227
Females					
Percent	5.1%	45.1%	2.0%	1.6%	53.9%
Mean Length (cm)	497	561	511	554	553
Std. Error	4	1	10	6	2
Sample Size	25	222	10	8	265
Mean Weight (kg)	1.93	2.88	2.02	2.78	2.75
Std. Error	0.04	0.02	0.11	0.10	0.03
Sample Size	25	222	10	8	265
Both Sexes					
Percent	8.9%	84.3%	4.3%	2.4%	100.0%
Mean Length (cm)	499	573	517	564	564
Std. Error	3	1	6	8	2
Sample Size	44	415	21	12	492
Mean Weight (kg)	2.01	3.15	2.19	2.99	3.00
Std. Error	0.04	0.02	0.08	0.14	0.03
Sample Size	44	415	21	12	492

Table 12. Age sex, and size composition of sockeye salmon escapement into Bear Lake, 10 June-10 July, 2000.

	Age Composition by Brood Year					
	1.1	1.2	1.3	2.2	2.3	Total
Sample Period: 10 Jun-10 Jul 2000			Sample ID: 00BEARRC			
Males						
Percent	1.0%	8.1%	32.3%	2.1%	1.0%	44.5%
Mean Length (cm)	343	464	558	484	575	533
Std. Error	6	8	3	11	4	5
Sample Size	4	31	124	8	4	171
Mean Weight (kg)	0.70	1.82	3.42	2.11	3.53	3.00
Std. Error	0.18	0.10	0.09	0.20	0.48	0.09
Sample Size	4	31	124	8	4	171
Females						
Percent		7.8%	41.9%	4.7%	1.0%	55.5%
Mean Length (cm)		495	532	494	562	524
Std. Error		6	2	7	16	2
Sample Size		30	161	18	4	213
Mean Weight (kg)		1.83	2.78	1.85	3.30	2.57
Std. Error		0.09	0.07	0.14	0.29	0.06
Sample Size		30	161	18	4	213
Both Sexes						
Percent	1.0%	15.9%	74.2%	6.8%	2.1%	100.0%
Mean Length (cm)	343	479	543	491	568	528
Std. Error	6	5	2	6	8	2
Sample Size	4	61	285	26	8	384
Mean Weight (kg)	0.70	1.82	3.05	1.93	3.41	2.77
Std. Error	0.18	0.07	0.06	0.12	0.26	0.05
Sample Size	4	61	285	26	8	384

Table 12. Age, sex, and size composition of chum salmon from the commercial catch from Silver Beach, 2000.

	Age Composition by Brood Year				Total
	0.2	0.3	0.4	0.5	
Sample Period: 1-Jul-2000		Sample ID: 00SILVCC			
Males					
Percent	0.9%	45.2%	4.2%	0.2%	50.6%
Mean Length (cm)	591	663	684	682	564
Std. Error	7	2	6	NA	2
Sample Size	5	246	23	1	275
Mean Weight (kg)	3.17	4.51	4.68		4.42
Std. Error	0.16	0.16	0.20		0.15
Sample Size	3	29	4		36
Females					
Percent	0.6%	46.3%	2.6%		49.4%
Mean Length (cm)	589	641	670		542
Std. Error	16	2	9		2
Sample Size	3	252	14		269
Mean Weight (kg)		3.95	4.09		3.96
Std. Error		0.10	0.38		0.09
Sample Size		29	3		32
Both Sexes					
Percent	1.5%	91.5%	6.8%	0.2%	100.0%
Mean Length (cm)	590	652	679	682	553
Std. Error	7	1	5	NA	1
Sample Size	8	498	37	1	544
Mean Weight (kg)	3.17	4.23	4.43		4.20
Std. Error	0.16	0.10	0.22		0.09
Sample Size	3	58	7		68

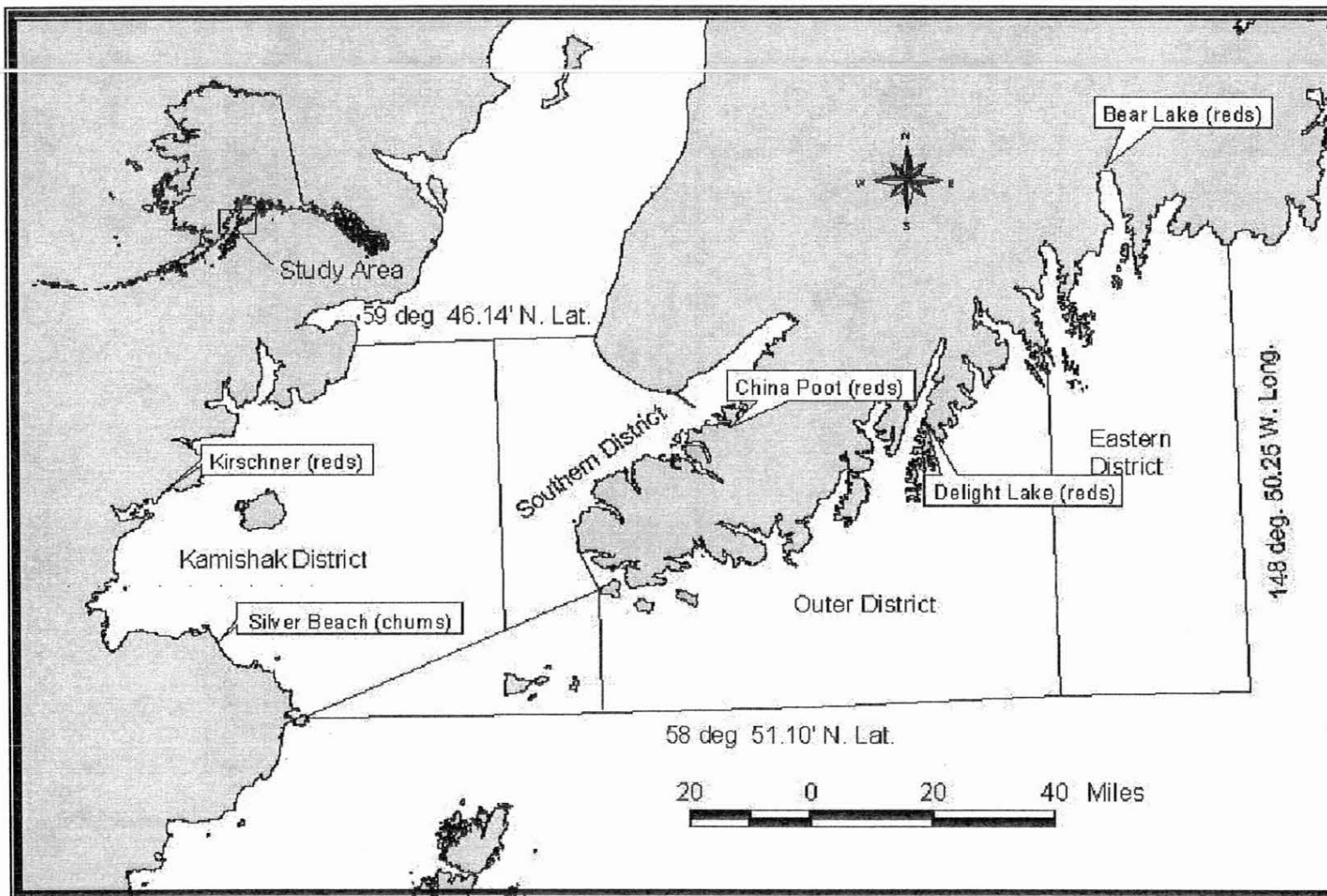


Figure 1. Lower Cook Inlet salmon management districts and locations of five stocks sampled for age, sex, and size in 2000.

APPENDIX

Appendix A.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the China Poot subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood				AGE GROUP																											
Year	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	
Male mean length (mm) by brood year																															
1977				489	12	25	----						436	11	2	----			580	35	2										
1978				----			542	NA	1				----			507	20	2	565	NA	1										
1979	----			514	1	247	526	14	9	568	NA	1				513															
1980	422	30	5	494	1	258	539	3	34							497	3	45				----						----			
1981				481	2	80	504	15	5	----																					
1982				498	10	7	----																								
1983				----			534	7	19				----			510	1	256	558	9	8										
1984	----			498	2	204	560	5	35				379	12	20	513	2	70	530	NA	1							437	22	2	
1985	351	4	20	489	1	439	554	5	27				407	NA	1	479	4	43	554	15	4										
1986	366	7	4	474	2	110	524	12	22				352	5	3	c	2	171	541	9	3										
1987	361	4	8	478	2	259	546	5	9				359	7	7	493	2	117													
1988				484	2	125	541						398	11	5	518			503	NA	1										
1989	383	3	12	495			523	3	32				394			483	6	11													
1990				465	1	150	520	4	19							497	9	4													
1991				478	1	128							403	4	3																
1992	391	3	21				540	3	46							509	6	9													
1993	394	6	25	492	1	210	525	8	11							489	11	8													
1994	407	19	8	484	1	220	530	7	17	522	8	8	394	10	4	488	12	9	556	NA	1										
1995	370	3	15	479	1	129	559	5	23																						
1996	498	2	29	499	2	29																									
1997																															
Female mean length (mm) by brood year																															
1977				511	4	36				----																					
1978				490	7	51	----						512	22	2	----			569	NA	1										
1979				----			573	29	2	511	NA	1	----			525	10	2													
1980	----			513	1	296	549	9	3							501	6	19	547	13	3										
1981				494	2	186	539	5	27							493	3	35				----									
1982				482	2	78				----						496	NA	1	----												
1983				493	32	3	----			632	NA	1				----			525	15	8										
1984				----			551	4	23				----			507	1	217	562	10	6										
1985	----			494	1	197	565	5	23				441	56	2	517	4	41	574	NA	1							486	NA	1	
1986	340	NA	1	488	1	319	546	6	19							473	2	66	550	23	4										
1987				472	2	163	533	7	25							478	2	151	538	NA	1										
1988				477	2	193	524	9	8							491	2	112													
1989				485	2	103	539									521			513	NA	1										
1990				495			521	2	40	492	NA	1				472	4	15													
1991				464	2	79	528	4	46				384	2	2	466	8	4													
1992				490	1	277	547	2	55				387	NA	1	495	7	4	517	NA	1										
1993				492	1	183	535	11	6				514	NA	1	496	6	13													
1994	386	NA	1	483	1	275	530	3	27	522	7	12				500	7	12													
1995				480	1	219	552	4	36							582	NA	1													
1996				497	2	60																									
1997	406	NA	1																												

Appendix A.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the China Poot subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood Year	AGE GROUP																													
	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n
Male mean weight (kg) by brood year																														
1975							2.20	NA	1																					
1976				2.17	0.06	26	2.61	NA	1	----																				
1977				2.17	0.14	18	----						1.14	NA	1	----				2.95	0.55	2								
1978				----			2.65	NA	1				----			2.03	0.13	2	2.90	NA	1									
1979	----			2.14	0.02	193	2.66	0.12	8	3.85	NA	1				2.26	0.11	7												
1980	0.94	0.07	5	2.02	0.02	178	2.91	0.05	23							2.43	0.04	24				----								
1981				2.26	0.03	40	2.14	0.21	5	----																				
1982				1.96	0.12	7	----																							
1983				----			2.70	NA	1				----			2.45	0.18	11												
1984	----			2.38	0.23	20	3.63	NA	2				1.80	0.07	4	2.00	0.1	2												
1985	0.70	0.06	3	1.83	0.06	22	2.83	0.59	5							1.70	0.23	3	2.10	NA	1									
1986	0.50	NA	1	1.54	0.06	11	2.46	0.15	3							1.80	0.09	23												
1987	0.70	NA	2	1.69	0.05	23	2.40	NA	2				0.50	NA	1	1.81	0.03	25												
1988				1.79	0.06	19										2.17														
1989	0.82	0.03	2	1.57			1.63	0.21	5							1.16	NA	1												
1990				1.23	0.06	17																								
1991				1.70	0.06	12																								
1992	0.99	0.04	2				2.36	0.15	6							2.37	0.06	2												
1993	0.87	0.12	3	1.94	0.06	15	2.09	NA	1				1.92	NA	1	1.84	NA	1												
1994				1.87	0.08	15	1.95	0.25	2	1.95	0.06	2				1.55	NA	1												
1995	0.86	NA	1	1.80	0.04	17	2.42	0.04	2																					
1996				1.64	0.07	5																								
1997																														
Female mean weight (kg) by brood year																														
1975							2.40	0.40	2							1.95	0.15	2												
1976				2.00	0.06	31				----																				
1977				1.98	0.11	24	----													2.70	NA	1								
1978				----			2.85	0.55	2	2.50	NA	1	----			2.03	0.18	2												
1979	----			1.98	0.02	231	2.80	0.15	3							1.97	0.09	14	2.88	0.08	3									
1980				1.90	0.03	118	2.91	0.08	16							2.26	0.06	26				----								
1981				2.11	0.02	32				----						1.70	NA	1												
1982				1.80	0.46	3	----																							
1983				----									----																	
1984	----			1.77	0.06	13										2.07	0.12	22												
1985				1.76	0.05	8										2.75	NA	1	2.60	NA	1									
1986				1.49	0.05	17	2.10	0.30	2							1.51	0.06	6												
1987				1.57	0.04	22	2.10	0.09	3							1.63	0.09	16												
1988				1.67	0.05	16	2.51									1.72	0.03	15												
1989				1.54			1.66	0.16	7																					
1990				1.15	0.07	11	2.13	0.21	5							1.25	0.11	2												
1991				1.65	0.03	33							0.77		1	1.33	0.11	2												
1992							2.41	0.14	4							2.14	NA	1												
1993				1.85	0.04	20							1.92	NA	1	1.69	0.10	3												
1994	1.02	NA	1	1.72	0.03	29				1.71	0.17	3				2.00	NA	1												
1995				1.67	0.06	18	2.04	0.07	6							1.71	0.17	3												
1996				1.73	0.05	6																								
1997																														

Appendix A.3. Estimated sockeye salmon harvest by sex, brood year, and age group, China Poot subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood Year	AGE GROUP												
	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year													
1975					152					----		----	
1976				5,620	136	----			----		----		
1977		----		3,394	----		272	----	266				
1978	----			----	133		----	266	216				
1979			----	32,845	1,941	190		1,509					----
1980			655	55,632	6,444			8,528		----		----	
1981				15,161	4,781	----			----		----		
1982		----		6,694	----			----	1,406				
1983	----			----	1,326		----	17,249	307				
1984			----	12,862	1,324		1,174	2,592	68			384	
1985			1,126	16,595	1,823		35	2,904	322				
1986			153	7,429	2,141		203	16,172	386				
1987			540	25,628	1,157		452	15,044					
1988				16,073	2,295		643	2,868	88				
1989			1,543	19,789	2,821		287	970					
1990			287	13,225	3,147			662					
1991				21,200			497						
1992			3,478										
1993			5,452	17,665	1,609			1,126					
1994			651	32,099	4,239	1,798	563	2,119	225				
1995			2,172	33,909	5,168								
1996				6,516									
1997													
Female harvest (number of fish) by brood year													
1975					456			304		----		----	
1976				5,468		----			----		----		
1977		----		6,926	----		272	----	133				
1978	----			----	266	216	----	266					
1979			----	39,360	647			4,097	569				----
1980				40,106	5,117			6,633		----		----	
1981				14,783		----		956	----		----		
1982		----		2,869	----	56		----	514				
1983	----			----	1,567		----	14,203	229				
1984			----	11,876	915		113	1,567	68			192	
1985			56	12,078	1,283			4,457	619				
1986				11,008	3,015			17,386	129				
1987				22,622	1,029			14,400					
1988				13,244	2,008			2,008	88				
1989				38,146	3,527	166		1,322					
1990				6,966	7,619		176	662					
1991				54,656			166						
1992									161				
1993				15,364	885			1,931					
1994			87	39,902	7,418	2,696		3,179					
1995				55,102	8,089			225					
1996				13,482									
1997			225										

Appendix A.4. Estimated age composition by harvest year for sockeye salmon harvested in the China Poot subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

Year	AGE GROUP																				3.3	n
	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n	2.4	n	3.1	n	3.2	n		
Male age composition by harvest year																						
1980			46.8	37	1.3	1																
1981			30.9	25	1.2	1			2.5	2												
1982	---		---		---		---		---		---		---		---		---		---		---	
1983	0.9	5	44.3	247	0.2	1					0.4	2	0.4	2								
1984			53.3	258	1.9	9					1.5	7	0.2	1								
1985			26.4	80	11.2	34	0.3	1			14.9	45										
1986			43.8	7	31.3	5																
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	1.8	20	20.3	204	2.1	19			1.9	20	27.2	256	2.2	21								
1989	0.4	4	46.4	439	3.7	35			0.1	1	7.2	70	0.9	8								
1990	1.8	8	24.9	110	6.1	27			0.7	3	9.8	43	0.2	1								
1991			28.8	259	2.4	22			0.5	7	18.2	171	0.4	4					0.4	2		
1992	2.4	12	25.3	125	1.8	9			1.0	5	23.6	117	0.6	3								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			45.3	150	9.7	32					3.3	11	0.3	1								
1995	3.8	21	23.0	128	3.4	19			0.5	3	0.7	4										
1996	4.5	25	39.5	222	3.0	17					0.3	2										
1997	1.5	8	40.7	210	8.9	46					1.7	9										
1998	2.7	15	39.9	220	2.0	11			0.7	4	1.4	8										
1999			32.0	129	4.0	17					2.0	9										
2000			17.0	29	13.5	23	4.7	8					0.6	1								
Female age composition by harvest year																						
1980																						
1981			63.0	51					2.5	2												
1982	---		---		---		---		---		---		---		---		---		---		---	
1983			53.1	296	0.4	2					0.4	2	0.2	1								
1984			38.4	186	0.6	3	0.2	1			3.9	19										
1985			25.7	78	8.9	27					11.6	35	1.0	3								
1986			18.8	3							6.3	1										
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	0.1	1	18.7	197	2.5	23	0.1	1	0.2	2	22.4	217	0.8	8								
1989			33.7	319	2.6	23					4.4	41	0.6	6								
1990			37.0	163	4.3	19					15.0	66	0.2	1								
1991			25.4	193	3.4	25					19.6	151	0.7	4					0.2	1		
1992			20.8	103	1.6	8					22.6	112	0.2	1								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			23.9	79	12.1	40			0.6	2	4.5	15	0.3	1								
1995			59.3	330	8.3	46	0.2	1	0.2	1	0.7	4										
1996			49.4	277	3.1	18					0.2	1										
1997	0.2	1	35.4	183	10.6	55			0.2	1	0.8	4										
1998			49.6	275	1.1	6					2.4	13	0.2	1								
1999			52.0	219	7.0	27					3.0	12										
2000	0.6	1	35.1	60	21.1	36	7.0	12			0.6	1										
Both sexes																						
1981																						
1982	---		---		---		---		---		---		---		---		---		---		---	
1983																						
1984			91.7	444	2.5	12	0.2	1			5.4	26	0.2	1								
1985			52.1	158	20.1	61	0.3	1			26.4	80	1.0	3								
1986			62.5	10	31.3	5					6.3	1										
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	1.9	21	38.9	401	4.6	42	0.1	1	2.0	22	49.5	473	3.0	29								
1989	0.4	4	80.1	758	6.3	58			0.1	1	11.6	111	1.5	14								
1990	1.8	8	61.9	273	10.4	46			0.7	3	24.7	109	0.5	2								
1991			54.3	452	5.8	47			0.5	7	37.7	322	1.1	8					0.7	3		
1992	2.4	12	46.1	228	3.4	17			1.0	5	46.3	229	0.8	4								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			69.2	229	21.8	72			0.6	2	7.9	26	0.6	2								
1995	3.8	21	82.2	458	11.7	65	0.2	1	0.7	4	1.4	8										
1996	4.5	25	89.0	499	6.1	35					0.5	3										
1997	1.7	9	76.1	393	19.5	101			0.2	1	2.5	13										
1998	2.7	15	89.5	495	3.1	17			0.7	4	3.8	21	0.2	1								
1999			84.0	348	11.0	44					5.0	21										
2000	0.6	1	52.0	89	34.5	59	11.7	20			0.6	1	0.6	1								

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^a Delight Lake escapement, ^b Desire Lake escapement, ^c Delight and Desire escapement

Appendix B.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Nuka Bay subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood		AGE GROUP																																									
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	3.3	SE	n	
Male mean weight (kg) by brood year																																											
1977																																											
1978																																											
1979				2.9	0.5	3																																					
1980	2.6	NA	1																																								
1981																																											
1982																																											
1983																																											
1984																																											
1985																																											
1986	2.1	NA	1																																								
1987																																											
1988																																											
1989																																											
1990																																											
1991																																											
1992																																											
1993																																											
1994																																											
1995																																											
1996																																											
1997																																											
Female mean weight (kg) by brood year																																											
1977																																											
1978																																											
1979				2.7	0.3	3																																					
1980																																											
1981																																											
1982																																											
1983																																											
1984																																											
1985																																											
1986																																											
1987																																											
1988																																											
1989																																											
1990																																											
1991																																											
1992																																											
1993																																											
1994																																											

Appendix B.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Nuka Bay subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood Year	AGE GROUP													
	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year ¹														
1977														209
1978														----
1979										2,713	----		----	----
1980						30,057	----		2,922	----	----	----	----	28
1981			----		3,757	----	----		----	----		----		
1982		----	----		----	----		----	----	1,993				
1983	----	----		----	----	1,123		----	562	466				7
1984	----			----	281	2,579			93	242			4	----
1985		31			1,398	1,401			453	216	----		----	
1986	31	14			408	358	----		82	----		----		
1987			----		56	----			----	728				
1988		----			----	478		----	166	196				
1989	----	28		----	353	1,054			588	22				
1990					710	4,508		24	22					
1991					2,588					181				
1992						1,973			125	160				
1993					624	4,764			352	511				
1994					1,535	14,313			1,534	176				
1995					12,268	8,480			483					
1996					835									
1997														
Female harvest (number of fish) by brood year														
1977														209
1978														----
1979										4,592	----		----	----
1980						33,395	----		6,053	----	----	----	----	28
1981		209	----		7,514	----	----		----	----	28	----	28	
1982		----	----		----	----		----	----	1,854				
1983	----	----		----	----	1,544		----	1,011	870				15
1984	----			----	674	2,734	5	28	280	320			4	----
1985		31			1,740	1,789	4		501	279	----		----	
1986	31	28			567	494	----		142	----		----		
1987			----		112	----			----	713				
1988		----			----	471		----	208	220			12	
1989	----			----	367	1,053	22		968	67				
1990	7				1,103	6,403			67					
1991					3,917					187				32
1992						1,986			150	496				
1993					987	4,092			719	352				
1994				12	3,837	7,668			439	432				
1995					12,779	9,754			432					
1996					1,098									
1997														

¹ Age composition calculated from Delight Lake sample

Appendix B.4. Estimated age composition by harvest year for sockeye salmon harvested in the China Poot subdistrict. Dashed lines indicate no data collected that year (page 4 of 4).

Year	AGE GROUP																				n								
	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n		2.4	n	3.1	n	3.2	n	3.3	n
Male age composition by harvest year																													
1980																													
1981																													
1982																													
1983	0.4	1	1.1	3					13.2	35	19.3	51					8.7	23	1.1	3									
1984									29.9	154	11.5	59	0.4	2			1.6	8	3.7	19									
1985									4.1	18	32.8	144					3.2	14	3.0	13							0.2	1	
1986	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1987	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1988									3.1	10	12.2	40					6.1	20	21.7	71								0.3	
1989	0.3	1	0.3	1					13.6	45	25.1	83					0.9	3	4.5	15									
1990			0.2	3					7.1	65	24.5	229					7.9	76	4.2	43									
1991									3.2	15	20.2	96					4.6	22	12.2	58						0.2	1	0.4	2
1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1993																													
1994									12.0	58	17.8	86			0.4	2	9.9	48	3.3	16									
1995									14.7	116	25.6	202					0.1	1	0.1	1									
1996									24.9 ^a	94	19.0 ^a	71																	
1997									10.0 ^c	66	31.6 ^c	210					2.0 ^c	13	2.9 ^c	19									
1998									9.6 ^a	47	29.8 ^a	146					2.2 ^a	11	1.0 ^a	5									
1999									24.0 ^a	108	28.0	124					3.0	15	1.0	4									
2000									3.9	19	39.2	193					2.2	11	0.8	4									
Female age composition by harvest year																													
1980																													
1981																													
1982																													
1983			1.1	3					18.1	48	26.4	70	0.4	1	0.4	1	8.7	23	1.1	3									
1984			0.2	1					30.9	159	15.9	82	0.4	2			3.3	17	1.9	10	0.4	2							
1985			0.2	1					8.2	36	36.5	160					6.6	29	5.0	22							0.2	1	
1986	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1987	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1988									7.3	24	16.8	55			0.3	1	11.0	36	20.2	66	0.3	1				0.3	1	0.3	1
1989	0.3	1	0.3	1					16.9	56	26.6	88					2.7	9	8.5	28									
1990			0.5	6					9.9	93	31.2	296	0.1	1			8.8	87	5.6	56									
1991									6.3	30	27.9	133	0.2	1			8.0	38	15.7	75						0.2	1	0.9	4
1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1993																													
1994									18.6	90	17.8	86					16.3	79	3.7	18						0.2	1		
1995									22.3	176	36.3	287	0.1	1			0.4	3	0.4	3									
1996									35.1 ^a	131	21.0 ^a	79																	
1997							0.2 ^c	1	15.8 ^c	105	31.8 ^c	211			0.3 ^c	2	2.4 ^c	16	3.0 ^c	20									
1998									24.0 ^a	118	25.6 ^a	126					4.5 ^a	22	3.1 ^a	15							0.2 ^a	1	
1999									25.0 ^a	115	15.0	69					3.0	13	1.0	5									
2000									5.1	25	45.1	222					2.0	10	1.6	8									
Both sexes																													
1980																													
1981																													
1982																													
1983	0.4	1	2.3	6					31.3	83	45.7	121	0.4	1	0.4	1	17.4	46	2.3	6									
1984			0.2	1					60.8	313	27.4	141	0.8	4			4.9	25	5.6	29	0.4	2							
1985			0.2	1					12.3	54	69.3	304					9.8	43	8.0	35							0.5	2	
1986	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1987	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1988									10.4	34	29.1	95			0.3	1	17.1	56	41.9	137	0.3	1				0.3	1	0.6	2
1989	0.6	2	0.6	2					30.5	101	51.7	171					3.6	12	13.0	43									
1990			0.7	9					17.0	158	55.7	525	0.1	1			16.7	163	9.8	99									
1991									9.5	45	48.1	229	0.2	1			12.6	60	27.9	133						0.5	2	1.2	6
1992	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1993																													
1994									30.6	148	35.5	172			0.4	2	26.3	127	7.0	34						0.2	1		
1995									37.0	292	61.9	489	0.1	1			0.5	4	0.5	4									
1996									60.0 ^a	225	40.0 ^a	150																	
1997							0.20 ^c	1	25.8 ^c	171	63.4 ^c	421			0.3 ^c	2	4.4 ^c	29	5.9 ^c	39									
1998									33.6 ^a	165	55.4 ^a	272					6.7 ^a	33	4.1 ^a	20							0.2 ^a	1	
1999									49.0	223	43.0	193					6.0	28	2.0	9									
2000									8.9	44	84.3	415					4.3	21	2.4	12									

^a Delight Lake escapement, ^b Desire Lake escapement, ^c Delight and Desire escapement

Appendix C.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Aialik subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood Year	AGE GROUP																														
	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	
Male mean length (mm) by brood year																															
1978																581	5	22								534	7	4	586	13	6
1979													502	4	89	581	2	93	648	NA	1					529	7	8	582	6	20
1980										355	25	2	515	3	116	569	3	85								510	7	30	571		
1981										400	NA	1	500	10	17	566						380	NA	1	498						
1982													496																581	5	33
1983																581	4	73							512	10	9	607	5	39	
1984	----						561	NA	1	----			517	3	58	590	2	214	610	4	2				539	5	19	610	9	12	
1985													521	3	65	613	4	50							545	2	126	571	3	103	
1986				659	NA	1				367	4	2	541	5	73	566	4	38							498	7	22				
1987	478	NA	1										496	8	29																
1988																															
1989																												611	NA	1	
1990																568	2	110							534	NA	1				
1991													513	3	64																
1992										337	NA	1				570	7	36	----						508	2	2	----			
1993													501	4	21	----			----						----						
1994				----									----			----			----					----	----						
1995	----			----									----			----								----	----						
1996	----			----									----			----								----	----						
1997	----																														
Female mean length (mm) by brood year																															
1978																557	3	43	546	11	5				530	na	1	565	6	3	
1979													499	2	119	557	2	100							512	8	4	548	5	24	
1980													493	2	117	551	2	103							493	4	19	547			
1981				539	NA	1							497	5	17	544			----						501						
1982													496																564	3	53
1983																555	2	110							506	9	17	579	6	21	
1984	----			516	NA	1				----			502	2	110	563	1	274	632	NA	1				526	4	27	594	6	6	
1985													506	3	70	579	4	56							520	2	137	547	2	149	
1986													529	3	66	544	3	68							501	4	37				
1987													496	5	29																
1988																															
1989																			542	NA	1							518	NA	1	
1990																548	1	191							496	15	5				
1991													497	1	154																
1992										515	NA	1				561	2	60	----						460	NA	1	----			
1993													487	6	19				----					416	NA	1	----				
1994				----									----			----			----					----	----						
1995	----			----									----			----								----	----						
1996	----			----									----			----								----	----						
1997	----																														

Appendix C.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Aialik subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood			AGE GROUP																												
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	
Male mean length (mm) by brood year																															
1978																3.16	0.10	8								2.67	0.21	3	2.9	NA	1
1979													0.06	38.00		3.34	0.07	38	4.8	NA	1					2.37	0.28	2	3.76	0.14	14
1980													2.42	0.06	54	3.5	0.07	51								2.56	0.12	17	2.86		
1981													2.63	0.16	5	2.96						1.3	NA	1	2.11						
1982													2.1																3.76	0.17	4
1983																3.37	0.35	9								1.55	NA	1	3.45	0.50	2
1984	----												2.44	0.19	6	3.8	0.16	20								2.45	NA	1	3.1	NA	1
1985													1.59	0.22	4	3.69	0.19	7								2.61	0.10	15	2.86	0.08	17
1986													2.48	0.52	4	2.96	0.13	5								2.11	0.18	3			
1987										0.8			2.1	0.22	6																
1988																															
1989																															
1990																3.28	0.10	16	----												
1991													2.47	0.14	4																
1992																															
1993	----																														
1994	----																														
1995	----																														
1996	----																														
1997	----																														
Female mean length (mm) by brood year																															
1978																2.94	0.09	14	2.85	NA	1					2.55	0.00	1	3	0.05	2
1979													2.03	0.05	43	2.93	0.05	59								2.33	0.08	2	3.2	0.10	12
1980													2.01	0.04	56	3.04	0.04	54								2.66	0.21	7			
1981				2.95	NA	1							2.28	0.08	9																
1982																															
1983																2.91	0.31	7								2.2	0.50	2	2.95	NA	1
1984	----												1.88	0.13	13	2.99	0.07	31								1.8	0.05	2	3.1	NA	1
1985													1.97	0.14	9	3.1	0.21	3								2.02	0.08	18	2.37	0.05	25
1986													1.85	0.04	6	2.42	0.09	11								1.96	0.14	5			
1987													1.76	0.08	5																
1988																															
1989																															
1990																2.52	0.07	22	----							1.81	NA	1			
1991													2.02	0.05	13																
1992																															
1993	----																														
1994	----																														
1995	----																														
1996	----																														
1997	----																														

Appendix C.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Aialik subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood Year	AGE GROUP													
	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year														
1978														
1979														----
1980											----		----	
1981							----			----		----		
1982			----			----			----	1,440				
1983		----			----	3,184		----	393	170				
1984	----		4	----	2,531	3,084	29		83	174				
1985					347	723			1,824	1,020				
1986		14		9	1,056	376			218	68				
1987	14				287	1,115				159				
1988					67	256			287					
1989					798					4	----			----
1990						408	----		4	----			----	
1991			----		238	----			----		----	----		----
1992		----		4	----	542	----	----	30	----	----		----	----
1993	----		----	----	317	----	----		----	----	----	----	----	----
1994		----	----		----	----	----	----	----	----		----	----	
1995	----	----	----	----	----	----		----	----			----		
1996	----	----		----	----			----						
1997	----			----										
Female harvest (number of fish) by brood year														
1978														
1979														----
1980											----		----	
1981							----			----		----		
1982			----			----			----	2,312				
1983		----			----	4,799		----	742	92				
1984	----	44		----	4,800	4,262	14		118	87				
1985					369	810			1,982	1,476				
1986					955	673			366	67				
1987					287	1,115				160				
1988					68	255			287					
1989					798		4			4	----			----
1990						709	----		19	----			----	
1991			----		573	----			----		----	----		----
1992		----		4	----	906	----	----	1	----	----		----	----
1993	----			----	287	----	----	15	----	----	----	----	----	----
1994		----	----		----	----	----	----	----	----		----	----	
1995	----	----	----	----	----	----		----	----			----		
1996	----	----		----	----			----						
1997	----			----										

Appendix C.4. Estimated age composition by harvest year for sockeye salmon harvested in the Aialik subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

Brood Year	AGE GROUP																			
	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n
Male age composition by harvest year																				
1983																				
1984							0.2	1	25.6	116	20.5	93					1.8	8	1.3	6
1985									5.4	17	26.7	85	0.3	1	0.3	1	9.4	30	6.3	20
1986									7.6		9.9						5.7		26.9	
1987	----		----		----		----		----		----		----		----		----		----	
1988									12.5	58	15.7	73					1.9	9	7.1	33
1989					0.1	1	0.1	2	4.1	65	36.1	214					1.0	19	2.0	39
1990	0.2	1	0.2	1					13.8	73	9.4	50	0.4	2			23.7	126	2.3	12
1991									6.1	29	8.0	38					4.6	22	21.7	103
1992									NA		NA								2.7	
1993																				
1994																				
1995							0.2	1	12.1	64	20.7	110					0.2	1	0.2	1
1996	----		----		----		----		----		----		----		----		----		----	
1997									15.0	21	25.7	36					1.4	2		
1998	----		----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----		----	
Female age composition by brood year																				
1983																				3
1984									25.8	117	22.1	100	1.1	5			0.9	4	0.7	3
1985			0.3	1					5.4	17	32.4	103					6.0	19	7.6	24
1986									5.0		12.0						7.0		26.0	
1987	----		----		----		----		----		----		----		----		----		----	
1988			0.2	1					23.7	110	23.7	110					3.7	17	11.4	53
1989									4.3	70	49.9	274					1.4	27	1.1	21
1990									12.4	66	10.5	56	0.2	1			25.8	137	1.1	6
1991									6.1	29	14.3	68					7.8	37	31.4	149
1992									NA		NA								3.0	
1993																				
1994																				
1995							0.2	1	29.1	154	36.0	191	0.2	1			1.0	5	0.2	1
1996	----		----		----		----		----		----		----		----		----		----	
1997									13.6	19	42.9	60			0.7	1	0.1	1		
1998	----		----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----		----	
Both Sexes																				
1984																				
1985			0.3	1					10.7	34	59.1	188	0.3	1	0.3	1	15.4	49	13.8	44
1986																				
1987	----		----		----		----		----		----		----		----		----		----	
1988			0.2	1					36.2	168	39.4	183					5.6	26	18.5	86
1989																				
1990	0.2	1	0.2	1					26.2	139	20.0	106	0.6	3			49.5	263	3.4	18
1991									12.2	58	22.3	106					12.4	59	53.1	252
1992									5.4	2	89.2	33							5.4	2
1993	----		----		----		----		----		----		----		----		----		----	
1994									70.4	190	18.9	51					7.8	21	3.0	8
1995							0.4	2	41.2	218	56.7	301	0.2	1			1.2	6	0.4	2
1996	----		----		----		----		----		----		----		----		----		----	
1997									28.6	40	68.6	96			0.7	1	2.1	3		
1998	----		----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----		----	

Appendix D.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Chenik subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood Year	AGE GROUP																														
	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	
Male mean length (mm) by brood year																															
1978																581	4	36													
1979													533	5	20	574	14	4													
1980													508	2	122	568	2	93													
1981													498	5	18	569	9	12	-----						509	6	22	-----			
1982							-----						508	2	214	-----			602	NA	1				-----			585	NA	3	
1983				-----									-----			565	1	441						-----	508	3	21	571	4	26	
1984	-----									-----			498	3	83	568	3	92					370	5	8	535	3	45	555	11	7
1985													518	2	46	554	3	114							502	6	16	562	5	9	
1986				552	26	5							493	1	327	550	2	104							517	9	10				
1987	417	NA	1										505	2	142	547	3	80													
1988													501	2	85	553	1	262	550	NA	1				549	5	6				
1989													516	5	32	548	3	44				329	NA	1	509	NA	1	541	9	2	
1990													491	1	44	558	1	203													
1991													504	3	80													535	NA	1	
1992																559	2	124	-----												
1993							-----			436	NA	1	491	4	26	-----			-----						-----						
1994				-----			-----						-----			-----			-----					-----							
1995	-----			-----			-----						-----			-----								-----							
1996	-----			-----									-----			-----								-----							
1997	-----												-----			-----								-----							
Female mean length (mm) by brood year																															
1978																548	3	46													
1979													497	3	57	538	11	4	515	NA	1							537	24	3	
1980													486	2	91	542	2	118							467	20	3				
1981				547	1	2							485	5	17	530	3	6	-----						489	3	16	-----			
1982							-----						486	2	132	-----												561	16	5	
1983				-----									-----			536	1	520						-----	490	3	48	543	5	16	
1984	-----									-----			484	2	111	542	2	69							505	3	47	523	14	4	
1985													494	3	62	534	2	125				324	NA	1	485	6	15	512	7	3	
1986				537	7	7							469	2	272	530	2	148							492	10	8	537	NA	1	
1987													481	2	94	512	3	55													
1988													487	3	70	532	1	203							496	NA	1				
1989													492	4	32	530	3	39							482	25	2	544	NA	1	
1990													476	3	52	531	1	181							470	NA	1				
1991													478	3	57													572	NA	1	
1992																531	2	126	-----												
1993							-----						476	3	34	-----			-----						-----						
1994				-----			-----						-----			-----			-----					-----							
1995	-----			-----			-----						-----			-----								-----							
1996	-----			-----									-----			-----								-----							
1997	-----												-----			-----								-----							

Appendix D.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Chenik subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood Year	AGE GROUP																														
	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	
Male mean weight (kg) by brood year																															
1978																2.64	0.05	36													
1979													2.05	0.06	20	2.58	0.03	2													
1980													1.76	0.03	56	2.81	0.07	27													
1981													2.08	0.06	8	2.2	0.28	4	-----						1.75	0.09	12	-----			
1982							-----						1.64	0.03	81	-----									-----						
1983			-----													2.6	0.06	49			-----			1.98	NA	2	2.3	NA	1		
1984	-----									-----			1.71	0.12	13	2.5	0.13	9			0.90	NA	1	2.18	0.09	4					
1985													2.05	NA	1	2.37	0.14	3										1.99	0.06	3	
1986													1.82	0.06	25	1.71	0.05	21						1.59	0.03	3					
1987													1.4	0.04	26	2.1	0.1	16													
1988													1.6	0.07	17	2.11	0.06	24										2.2	NA	1	
1989													1.37	0.2	3	2.19	0.05	44						1.7	NA	1	2.05	0.25	2		
1990													1.56	0.02	144	2.25	0.02	203													
1991													1.65	0.03	80													2.3	NA	1	
1992																2.4	0.03	124	-----												
1993							-----			2.00	NA	1	1.59	0.05	26	-----			-----						-----						
1994				-----			-----						-----			-----			-----					-----							
1995	-----			-----			-----			-----			-----			-----			-----					-----							
1996	-----			-----			-----			-----			-----			-----			-----					-----							
1997	-----			-----			-----			-----			-----			-----			-----					-----							
Female mean weight (kg) by brood year																															
1978																2.05	0.04	46													
1979													1.52	0.03	57	2.02	0.06	3										3.6	NA	1	
1980													1.39	0.03	55	2.44	0.06	27													
1981				3	NA	1							1.88	0.09	3	1.83	0.09	3	-----						1.46	0.07	9	-----			
1982							-----						1.39	0.03	37	-----									-----						
1983			-----										-----			2.01	0.05	44			-----			1.55	NA	2	1.9	NA	1		
1984	-----									-----			1.54	0.06	15	2.03	0.12	6						1.75	0.11	4					
1985													1.53	0.09	4	2.1	NA	1						1.3	NA	1					
1986													1.52	0.04	16	1.5	0.03	24						1.38	NA	1	1.89	NA	1		
1987													1.1	0.04	14	1.55	0.11	9													
1988													1.48	0.09	12	1.78	0.05	25													
1989													1.4	NA	1	1.81	0.05	39													
1990													1.31	0.03	52	1.77	0.02	181						1.35	0.05	2	1.8	NA	1		
1991													1.29	0.03	57									1.1	NA	1					
1992																1.93	0.03	126	-----									2.25	NA	1	
1993							-----						1.32	0.04	34	-----			-----					-----							
1994				-----			-----						-----			-----			-----					-----							
1995	-----			-----			-----			-----			-----			-----			-----					-----							
1996	-----			-----			-----			-----			-----			-----			-----					-----							
1997	-----			-----			-----			-----			-----			-----			-----					-----							

Appendix D.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Chenik subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood	AGE GROUP													
Year	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year														
1979														
1980						3,875					---			---
1981					750	3,322	---		6,091	---			---	
1982			---		59,250	---	187		---	414		---		
1983		---			---	63,150		---	2,951	2,504				
1984	---			---	9,843	8,860		1,079	4,333	588				
1985					4,430	9,577			1,120	900				
1986		451			24,897	10,395								
1987	90				14,192	3,953								
1988					4,199	11,986			274					
1989					1,464			46						
1990														
1991											0			0
1992							0			0	0		0	0
1993			0	1		0	0		0	0	0	0	0	0
1994		0	0		0	0	0	0	0	0		0	0	
1995	0	0	0	0	0	0		0	0			0		
1996	0	0		0	0			0						
1997	0			0										
Female harvest (number of fish) by brood year														
1979							42			125				
1980						4,916			125		---			---
1981		83			708	1,661	---		4,430	---			---	
1982			---		36,546	---			---	904		---		
1983		---			---	65,687		---	6,063	1,541				
1984	---			---	13,882	6,644			4,526	361				
1985					5,971	10,870		96	1,159	300				
1986		632			20,602	14,792			800	49				
1987					9,395	2,717								
1988					3,460	9,287			46					
1989					1,464									
1990														
1991											0			0
1992							0			0	0		0	0
1993			0			0	0		0	0	0	0	0	0
1994		0	0		0	0	0	0	0	0		0	0	
1995	0	0	0	0	0	0		0	0			0		
1996	0	0		0	0			0						
1997	0			0										

Appendix D.4. Estimated age composition by harvest year for sockeye salmon harvested in the Chenik subdistrict.
Dashed lines indicate no data were collected that year (page 4 of 4).

Brood Year	AGE GROUP																	
	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n
Male age composition by harvest year																		
1983									12.6	20	22.6	36						
1984									55.2	122	1.8	4						
1985									7.1	18	36.5	93						
1986									53.2	214	3.0	12					5.5	22
1987	----		----		----		----		----		----		----		----		----	
1988									6.0	83	38.5	441	0.1	1	0.7	8	1.8	21
1989									11.4	46	22.8	92					11.1	45
1990	0.1	1	0.6	5					35.4	327	13.6	114					1.6	16
1991									27.4	142	20.1	104					1.9	10
1992									29.2	85	27.5	80						
1993									6.0	32	48.8	262			0.2	1	1.1	6
1994									50.7	144	15.6	44	0.4	1			0.4	1
1995									15.2	80	38.8	203						
1996							0.2	1	31.8	179	16.6	94					0.2	1
1997									8.3	26	39.8	124						
1998	----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----	
Female age composition by harvest year																		
1983									35.9	57	28.9	46						
1984									41.2	91	1.8	4						
1985			0.8	2					6.7	17	46.3	118	0.4	1			1.2	3
1986									32.8	132	1.5	6					4.0	16
1987	----		----		----		----		----		----		----		----		----	
1988									8.5	111	40.0	520					3.7	48
1989									15.4	62	17.1	69			0.3	1	11.6	47
1990			0.9	7					29.3	272	15.5	125					1.7	15
1991									18.2	94	28.6	148					1.6	8
1992									24.1	70	18.9	55						
1993									6.0	32	37.8	203					0.2	1
1994									18.4	52	13.7	39					0.7	2
1995									10.9	57	34.4	181					0.2	1
1996									33.7	190	17.4	98					0.2	1
1997									10.9	34	40.4	126						
1998	----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----	
Both sexes																		
1983									48.4	77	51.6	82						
1984									96.4	213	3.6	8						
1985			0.8	2					13.7	35	82.7	211	0.4	1			1.2	3
1986									86.1	346	4.5	18					9.5	38
1987	----		----		----		----		----		----		----		----		----	
1988									14.5	194	78.5	961	0.1	1	0.7	8	5.5	69
1989									26.7	108	39.9	161			0.3	1	22.8	92
1990	0.1	1	1.5	12					64.7	599	29.1	239					3.2	31
1991									45.6	236	48.7	252					3.5	18
1992									53.3	155	46.4	135						
1993									11.9	64	86.6	465			0.2	1	1.3	7
1994									69.2	196	29.3	83	0.4	1			1.1	3
1995									26.1	137	73.2	384					0.2	1
1996							0.2	1	65.5	369	34.0	192					0.3	2
1997									19.2	60	80.2	250					0.6	2
1998	----		----		----		----		----		----		----		----		----	
1999	----		----		----		----		----		----		----		----		----	
2000	----		----		----		----		----		----		----		----		----	

Appendix E.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from Mikfik Creek. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood Year	0.3			0.4			1.1			1.2			1.3			1.4			2.1			2.2			2.3			2.4			3.1			3.2			SE		
	SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n		SE	n				
Male mean length (mm) by brood year																																							
1971										503*	16	5	416	NA	1							469	NA	1															
1972										454	24	3																											
1973																																							
1974																																							
1975										503			527	5	12							545	NA	1															
1976										484	11	15													517	12	7												
1977													519	5	23																								
1978										499	8	5																											
1979																																							
1980																505	1	2							520	14	3	----								----			
1981													520	2	117							448	7	13	----														
1982										457	6	43				----									515	12	6									----			
1983	-----												512	1	190							479	8	17	535	5	23												
1984										462	2	130	533	1	215							493	6	28	510	4	35												
1985										475	8	26	504	3	88							471	8	14	501	8	5												
1986										441	3	98	500	2	160							456	3	39	491	3	34												
1987										464	4	35	506	1	233							446	12	5	516	4	19												
1988										443	3	19	516	1	102							471	6	13															
1989										457	2	96													501	7	4												
1990							316	NA	2				515	5	32							443	18	2															
1991										433	6	18																											
1992							332	NA	1				523	2	72	----						474	7	9	----														
1993	553	NA	1	----						486	8	19																											
1994	-----												525	2	80	----						487	3	20	----														
1995										459	2	85																											
1996	-----																																						
1997																																							
Female mean length (mm) by brood year																																							
1970													522*	NA	1																								
1971										439*	NA	1	497	9	4							463	8	3															
1972										462	6	10																											
1973																																							
1974																																							
1975													503	7	23							448	3	2															
1976										469	11	15													522	4	9												
1977													513	4	37																								
1978										483	17	10																											
1979																																							
1980																																							
1981													512	3	63	----						462	4	15	----										460	NA	1		
1982	545	NA	1	----						458	5	33														517	NA	2											
1983	-----												511	2	181							469	5	18	525	4	12												
1984										458	1	161	531	2	156							480	5	26	510	4	20												
1985										471	6	27	511	3	69							456	10	9	494	6	12												
1986										438	3	73	499	2	155							457	3	65	508	4	18												
1987										461	3	58	509	2	198							451	8	5	520	5	15												
1988										446	3	22	517	1	108							467	7	14															
1989										463	1	110													510	NA	1												
1990							310	5	8				502	3	30							459	17	3															
1991	510	NA	1							444	5	27													501	NA	1	----											
1992													522	3	46	----						457	10	9	----														
1993										469	8	22													495	20	3	----											
1994	-----												512	3	82	----						477	3	50	----														
1995										457	1	138																											
1996	-----																																						
1997																																							

Appendix E.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Mikfik Creek. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood				AGE GROUP																																			
Year	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	3.3	SE	n
Male mean weight (kg) by brood year																																							
1978																																							
1979																																							
1980																1.6	NA	1							1.75	0.1	2	----											----
1981													1.76	0.03	48	----							1.2	NA	1	----													
1982				----						1.27	0.06	22	----									----				2.5	NA	1											
1983	----									----			2.21	0.04	41						----		1.53	0.08	4	1.87	0.09	3											
1984							----			1.66	0.08	17	2.06	0.07	25							1.37	0.23	2	1.8	NA	1												
1985										0.9	NA	1	1.91	0.09	9							1.25	0.15	2	1.64	0.11	2												
1986										1.45	0.07	8	1.73	0.04	30							1.21	0.14	3	1.65	0.06	3												
1987										1.51	0.07	7	1.72	0.06	20											1.99	NA	1											
1988										1.19	0.05	2	1.7	0.08	9																								
1989										1.24	0.07	10														1.78	0.09	4											
1990													1.93	0.09	32							1.27	0.18	2				----										----	
1991										1.17	0.07	18				----												----											----
1992				----			0.5	NA	1							----																							
1993	----			----																																			
1994	----												1.85	0.05	26	----																							
1995				----						1.29	0.04	28	----																										
1996	----									----																													
1997																																							
Female mean weight (kg) by brood year																																							
1977																																							
1978																																							
1979																																							
1980																									1.53	0.18	3	----											
1981													1.62	0.06	22	----								1.13	0.05	5	----												
1982	2	NA	1	----						1.06	0.06	16																											
1983	----									----			2.16	0.08	26						----		1.56	0.06	4														
1984							----			1.51	0.04	21	1.78	0.09	17									1.58	0.08	2	1.95	0.25	2										
1985										1.33	0.33	2	1.96	0.06	8									1.7	NA	1	1.6	0.01	3										
1986										1.34	0.05	9	1.62	0.03	34									1.31	0.05	12	1.52	0.12	2										
1987										1.45	0.04	8	1.7	0.05	23																								
1988										0.99	0.04	2	1.59	0.05	12																								
1989										1.21	0.05	18																											
1990							0.4	NA	1				1.64	0.03	30	----											1.72	NA	1										
1991	1.7	NA	1							1.21	0.05	27				----																							
1992				----																																			
1993	----			----																																			
1994	----												1.72	0.05	38	----																							
1995				----						1.27	0.04	53	----																										
1996	----																																						
1997																																							
1998																																							

Appendix E.3. Estimated sockeye salmon harvest by sex, brood year, and age group from Mikfik Creek. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood	AGE GROUP													
Year	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year														
1976										1,386				
1977						4552								
1978					990									
1979														93
1980							186			279	0		0	
1981						10,869	0		1208	0		0		
1982			0		3,995	0			0	131				
1983		0			0	3,892		0	352	314				
1984	0			0	2,676	2,933			382	782				
1985					355	1,965			313	122				
1986					2,188	3,897			950	252				
1987					853	1,730			37	37				
1988					141	197			25					
1989					185					5	0			0
1990				4		36	0		2	0			0	
1991			0		21	0			0			0		
1992		0		1	0			0						
1993	0			0	22						0			0
1994						1,216	0		286	0			0	
1995			0		1,359	0			0			0		
1996		0			0			0						
1997	0			0										
Female harvest (numbers of fish) by brood year														
1976										1,782				
1977						7,324								
1978					1,979									
1979														0
1980										372	0		93	
1981						5,852	0		1,394	0		0		
1982		93	0		3,066	0			0	42				
1983		0			0	3,746		0	381	164				
1984	0			0	3,420	2,129			355	447				
1985					368	1,541			201	292				
1986					1,629	3,776			1,583	134				
1987					1,413	1,469			37	29				
1988					163	209			27					
1989					213					1	0			0
1990				15		35	0		3	0			0	
1991		1	0		31	0			0			0		
1992		0			0			0						
1993	0			0	26	1,296			792	71	0			0
1994						1,288	0		787	0			0	
1995			0		2,146	0			0			0		
1996		0			0			0						
1997	0			0										

Appendix E.4. Estimated age composition by harvest year for sockeye salmon harvested in the Chenik subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

Year	AGE GROUP																								3.3	n
	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n	2.4	n	3.1	n	3.2	n		
Male age composition by harvest year																										
1976							13.6	3	4.6	1					4.6	1										
1977																										
1978																										
1979																										
1980							22.1	15	17.6	12					1.5	1										
1981																										
1982							5.5	5	25.3	23							7.7	7								
1983																										
1984																										
1985																										
1986							14.5	43	39.5	117	0.7	2			4.4	13	1.0	3							0.3	
1987	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1988							18.3	130	26.6	190					2.4	17	0.9	6								
1989							5.1	26	41.9	215					5.5	28	4.5	23								
1990							24.1	98	21.7	88					3.5	14	8.6	35								
1991							6.6	35	30.2	160					7.4	39	1.0	5								
1992							3.6	19	43.7	233					0.9	5	6.4	34								
1993					0.4	2	19.7	96	20.9	102					2.7	13	3.9	19								
1994																										
1995																										
1996	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1997	0.1	1					10.6	19	40.2	72					5.0	9										
1998	----		----		----																					
1999	----		----		----		19.0	85	17.0	80					4.0	20										
2000	----		----		----																					
Female age composition by harvest year																										
1976							45.5	10	18.2	4					13.6	3										
1977																										
1978																										
1979																										
1980							22.1	15	33.8	23					2.9	2										
1981																										
1982							11.0	10	40.7	37							9.9	9								
1983																										
1984																										
1985																										
1986	0.3	1					11.2	33	21.3	63					5.1	15	1.4	4						0.3	1	
1987	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1988							23.4	161	25.6	181					2.6	18	0.3	2								
1989							5.3	27	30.4	156					5.1	26	2.3	12								
1990							18.0	73	17.0	69					2.2	9	4.9	20								
1991							11.0	58	29.3	155					12.3	65	2.3	12								
1992							4.1	22	37.1	198					0.9	5	3.4	18								
1993					1.6	8	22.6	110	22.2	108					2.9	14	3.1	15								
1994																										
1995																										
1996	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1997							12.3	22	25.7	46					5.0	9	0.6	1								
1998	----		----		----																					
1999	----		----		----		30.0	138	18.0	82					11.0	50	1.0	3								
2000	----		----		----																					
2001	----		----		----																					
Both sexes																										
1975							66.7	6	22.2	2					11.1	1										
1976							59.1	13	22.7	5					18.2	4										
1977																										
1978																										
1979																										
1980							44.2	30	51.4	35					4.4	3										
1981																										
1982							16.5	15	65.9	60							17.6	16								
1983																										
1984																										
1985																										
1986							25.7	76	60.8	180	0.7	2			9.5	28	2.4	7						0.3	1	0.3
1987	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1988							41.6	291	52.2	371					5.0	35	1.2	8								
1989							10.3	53	72.3	371					10.5	54	6.8	35								
1990							42.1	171	38.7	157					5.7	23	13.6	55								
1991							17.6	93	59.5	315					19.7	104	3.2	17								
1992							7.7	41	80.7	431					1.9	10	9.7	52								
1993					2.0	10	42.3	206	43.2	210					5.5	27	7.0	34								
1994																										
1995																										
1996	----		----		----		----		----		----		----		----		----		----		----		----		----	----
1997	0.6	1					22.9	41	65.9	118					10.0	18	0.6	1								
1998	----		----		----																					
1999	----		----		----		49.0	223	35.0	162					15.0	70	1.0	3								
2000	----		----		----																					

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 1 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card	Electronic file	Hardcopy file	Comments
						Location	Location	Location	
1968	Southern	English Bay	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1969	Eastern	Ress. Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1970	Southern	McDonald Spit	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1972	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1973	Southern	Homer Dock	Sockeye	Set net	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	south bay set net
1974	Outer	Port Dick	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1974	Outer	Island Cr	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1974	Southern	Kasitsna	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1975	Kamishak	Mikfik Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1975	Southern	Homer	Sockeye	Set net	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	set net sites?
1975	Kamishak	Mikfik Lake	Sockeye	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Kamishak	Cottonwood	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Kamishak	Ursus	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Southern	English Bay	Sockeye	?	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Kamishak	McNeil River	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Outer	Delight Lake	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Outer	Desire Lake	Sockeye	Escapement	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1978	Southern	Tutka	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1980	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	McNeil River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	Silver Beach	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Eastern	Aialik	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Chenik Lake	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	China Poot	Sockeye	Comm Catch	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Delight Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Desire Lake	Sockeye	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	English Bay	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Iniskin	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Kamishak River	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	McNeil River	Chum	Comm Catch	32	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Nuka Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Eastern	Tonsina Cr	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	Tutka	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Silver Beach	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Aialik	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Chenik Lake	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Iniskin	Chum	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	Kasitsna	Sockeye	Set net	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 2 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1984	Southern	Kasitsna	Sockeye	Set net	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Kamishak River	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	McNeil River	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Outer	Nuka Bay	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Ress. Bay	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	Seldovia Bay	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Ress. Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Outer	Rocky Bay	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Ursus	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Eastern	Aialik	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Kamishak	Chenik Lake	Sockeye	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Southern	China Poot	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Outer	Desire Lk	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Southern	Kasitsna	Sockeye	Set net	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Kamishak	Mikfik Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Outer	Nuka Bay	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	no acetate impressions
1985	Eastern	Tonsina Cr	Chum	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	Chenik Lake	Sockeye	Escapement	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	scales missing
1986	Southern	China Poot	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	McNeil River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	scales missing
1986	Southern	Kasitsna	Sockeye	Set net	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	Mikfik Lake	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	2 acetates missing
1988	Eastern	Aialik	Sockeye	Comm Catch	14	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Chenik Lake	Sockeye	Escapement	36	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Southern	China Poot	Sockeye	Comm Catch	30	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Cottonwood	Chum	Comm Catch	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Iniskin	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	McNeil River	Chum	Comm Catch	27	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Outer	Nuka Bay	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Mikfik Lake	Sockeye	Comm Catch	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Outer	Port Dick	Chum	Comm Catch	25	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Silver Beach	Chum	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Eastern	Tonsina Cr	Chum	Comm Catch	21	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Eastern	Aialik	Sockeye	Comm Catch	23	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Kamishak	Chenik Lake	Sockeye	Escapement	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Southern	China Poot	Sockeye	Comm Catch	30	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Outer	Nuka Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Kamishak	Chenik Lake	Sockeye	Escapement	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Kamishak	Chenik Lake	Sockeye	Escapement	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 3 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card	Electronic File	Hardcopy File	Comments
						Location	Location	Location	
1990	Kamishak	Mikfik Lake	Sockeye	Comm Catch	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/5/1990
1990	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1990
1991	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Bruin Bay	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/13/1991
1991	Southern	China Poot	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/18/1991
1991	Kamishak	Douglas River	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Kamishak River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Port Dick	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Port Dick	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Bruin Bay	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Chenik Lake	Sockeye	Escapement	27	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Chenik Lake	Sockeye	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Southern	China Poot	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Cottonwood	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Outer	Delight Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Southern	English Bay	Sockeye	Escapement	41	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	McNeil River	Chum	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Silver Beach	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/7/1992
1992	Kamishak	Silver Beach	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/31/1992
1992	Kamishak	Silver Beach	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Chenik Lake	Sockeye	Escapement	24	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/25/1993
1993	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/1/1993
1993	Southern	China Poot	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Southern	English Bay	Sockeye	Escapement	44	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Southern	Neptune Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Silver Beach	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	Chenik Lake	Sockeye	Escapement	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	China Poot	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	English Bay	Sockeye	Escapement	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	Hazel Lake	Sockeye	Escapement	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	4 fish sample

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 4 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1994	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	McNeil River	Chum	Test Fish	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Fish taken in Lagoon
1994	Southern	Neptune Bay	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Outer	Nuka Bay	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delight Lake
1994	Outer	Nuka Bay	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Desire Lake
1994	Outer	Nuka Bay	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delusion Lake
1994	Eastern	Ress. Bay	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	Silver Beach	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Chenil Lake	Sockeye	Escapement	18	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/28/1995
1995	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	8/2/1995
1995	Outer	Delight Lake	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Mikfik Lake	Sockeye	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	McNeil River	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Southern	Neptune Bay	Sockeye	Comm Catch	18	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/27/1995
1995	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/30/1995
1995	Outer	Nuka Bay	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1995
1995	Eastern	Ress. Bay	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	Chenik Lake	Sockeye	Escapement	23	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Southern	China Poot	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	McNeil River	Chum	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Southern	English Bay	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Cost Recovery
1996	Southern	Neptune Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Outer	Nuka Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delight Lk escapement
1996	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/4/1996
1996	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Eastern	Aialik	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/8/1997
1997	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1997
1997	Outer	Delight Lake	Sockeye	Escapement	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	EVOS funded project
1997	Outer	Desire Lake	Sockeye	Escapement	21	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	EVOS funded project
1997	Kamishak	Mikfik Lake	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Southern	Neptune Bay	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Eastern	Ress. Bay	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Kamishak	Silver Beach	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 5 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card	Electronic File	Hardcopy File	Comments
						Location	Location	Location	
1998	Eastern	Bear Creek	Sockeye	Escapement	54	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	From CIAA
1998	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1998	Outer	Delight Lake	Sockeye	Escapement	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Escapement project
1998	Outer	Desire Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1998	Eastern	Grouse Lake	Sockeye	Escapement	24	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	poor quality, 7/20/98
1998	Eastern	Grouse Lake	Sockeye	Escapement	25	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	8/15/1998
1999	Southern	China Poot	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Kamishak	Mikfik Lake	Sockeye	Comm Catch	14	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Desire Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Delight Lake	Sockeye	Escapement	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Delight Lake	Coho	Escapement	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Southern	China Poot	Sockeye	Escapement	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Kamishak	Kirchsner Lk	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Kamishak	Douglas River	Chum	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Sampled 7/21
2000	Kamishak	Kamishak River	Chum	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Sampled 7/25
2000	Outer	Port Dick	Chum	Comm Catch	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Data lost in cabin fire
2000	Outer	East Nuka	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix G. Inventory of Lower Cook Inlet sockeye and chum salmon AWL data, 1983 through 2000.

Location	Sample Year																	
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Sockeye																		
China Poot	C	C	C	C		C	C	C	C	C	C	C	C	C	C	C	C	C
Neptune Bay											C	C,E	C	C	C			
English Bay	C									E	E	E		E				
Chenik Lake	C	C	E	C		E	E	E	E	E	E	E	E	E				
E. Nuka Bay		C	C			C	C	C	C		C	C	C					
Delight Lake										C		E	E	E	E	E	E	C
Desire Lake	E		C									E			E	C	C	
Kirschner Lake									C	C	C	C	C	C			C	C
Aialik Lake	C	C	C			C	C	C	C				C	C				
Grouse Lake															C			
Resurrection Bay		C										C	C	C	C	E		
Resurrection Bay, Bear Lk.																C	E	E
Douglas/Kamishak River									C									
Silver Beach	C									C	C	C			C			
Mikfik Lake	C		C	C		C	C	C	C	C	C		C		C		C	
Chum																		
McNeil River	C	C		C		C				C		C	C	E				
Cottonwood Cr						C				C								
Silver Beach						C				C								C
Iniskin River	C	C				C												
Tonsina Cr.	C		C			C												
Aialik Bay		C																
Kamishak River	C	C							C									
Resurrection Bay		C																
Port Dick Bay						C			C									
Drum Bay								C		C								
Rocky Bay		C																
Ursus Bay		C																

Appendix H. Names and locations of files used to generate this report. All files are stored on the hard drive of the finfish research computer and backed up on CD ROM.

File Name	Subdirectory	Format	Description
00salmawlrir.doc	C:\REPORTS\SALMON\AWL\2000	Word 2000	Text, tables, and figures (including bitmap images of appendices) for the 2000 LCI salmon AWL Regional information Report
00Appendix A.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	China Poot sockeye age, weight, length data by brood year and age group
00Appendix B.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	Nuka Bay sockeye age, weight, length data by brood year and age group
00Appendix C.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	Aialik Lake sockeye age, weight, length data by brood year and age group
00Appendix D.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	Chenik Lake sockeye age, weight, length data by brood year and age group
00Appendix E.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	Mikfik Lake sockeye age, weight, length data by brood year and age group
00Appendix F.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	LCI adult salmon scale archive
00Appendix G.xls	C:\REPORTS\SALMON\AWL\2000	Excel 2000	Inventory of LCI salmon AWL data, 1983-2000